NOVEMBER-DECEMBER 1984

publicpower

PUBLIC POWER INNOVATION

public power

NOVEMBER-DECEMBER 1984
VOLUME 42 NUMBER 6

6 **OUTLOOK AND INSIGHTS by Alex Radin**
Growing interest of public power systems in innovative technologies can provide a base of common interests with environmental groups.

10 **BUILDING A COMMON AGENDA by Ruth Caplan**
"Despite our differences, consumer-owned electric systems and environmental groups can build on our common heritage."

13 **HOW THE ROUNDTABLE WORKS by Stephen O. Andersen**
"The Consumer, Environment and Energy Roundtable participants address topics on a carefully planned agenda, and in the process work out problems."

14 **JACKSON PROJECT WINS ECOLOGY AWARD by A.J. Muntz**
"The Henry M. (Scoop) Jackson Project is a fitting memorial to the man who had a leading role in formulating national energy and environmental policies."

21 **COAL ASH IS AN ASSET by Tobias Anthony**
"As we properly use coal ash we eliminate stockpiling problems, preserve other natural resources and create high-value, high-quality products."

25 **COMPUTERS HELP CONSERVE WASTE HEAT**
by William A. Emslie and Carol J. Dollard
Platte River Power Authority captures waste heat from its computers, and carefully monitors performance of its solar and heat-reclaim systems.

29 **MEET PEAK DEMAND FOR $158 PER kW by David J. Christiano**
"With fossil-fired base capacity costs escalating and utilities facing difficulty in financing, gas turbines can provide cost-effective additions."

32 **PUBLIC POWER INNOVATION**
More than 700 new innovative projects by 147 public power systems in 39 states and three Canadian provinces are summarized in this issue—and are also in APPA's electronic data base.

99 **TIDAL POWER PLANT BEGINS OPERATION IN NOVA SCOTIA**
North America's first tidal power project will produce 50 million kWh annually.

103 AD INDEX 104 NEW PRODUCTS 105 BOOKS 106 MEETINGS

107 **INSIDE APPA by Madalyn Cafruny**
98th Congress a mixed bag for public power; DEED campaign underway; 14 utilities' annual reports win awards; new pamphlet deals with preference.

108 **THE OTHER SIDE by Vic Reinemer**
"A bill significant to local and state governments moved almost unnoticed from Congress to the White House in the adjournment rush."

FRONT COVER: The latest among the hundreds of innovative electric power techniques described in this issue is the tidal plant energized by 20-foot tides at Annapolis Royal, N.S. See page 99.

Editor and publisher, VIC REINEMER
Associate editor, JEANNE WICKLINE LABELLA
Assistant editor, LORI A. WOEHRLE
Engineering editor, HERBERT I. BLINDER
Conservation editor, KAREN ANDERSON
Research editor, MICHAEL K. BERGMAN
Economics editor, JOHN KELLY
Innovations editor, JACQUIE COCHRAN
Consulting designer, LECKIE/LEHMANN

Contributing editors:
RALPH ALLEN
LARRY BRUNEEL
MADALYN CAFRUNY
TONI CLARK
CHARLES DEVORE
PAUL FRY
CINDY GASKILL
ANNE MARIE GIBBONS
RUTH GONZE
TED HANDEL
LAWRENCE HOBART
KAREN HUNSAKER
JEANNIE KILMER
PRISCILLA KNIGHT
NANCY MOONEY
DEBBIE NUTTALL
EILEEN PEERLESS
ALEX RADIN
ALAN H. RICHARDSON
GORDON ROBERTS
HEIDI SCHWARTZ
RANDY SWISHER
JEFF TARBERT

Advertising manager, W. E. (Trez) Lee; *Assistant advertising manager*, Peggy Douglas; *Circulation manager*, Margaret I. Winfough; *Classified advertising manager*, LaVeer Jordan.

Editorial and advertising offices: 2301 M St. N.W., Washington, D.C. 20037. 202/775-8300

PUBLIC POWER *is the official publication of the American Public Power Association. Opinions expressed in signed articles are not necessarily* APPA *policies. For permission to reprint articles write or call the publisher.*

Published bimonthly, PUBLIC POWER is a member of Business Publication Audit of Circulation, Inc. (BPA) and the Society of National Association Publications (SNAP). Second-class circulation postage paid at Washington, D.C. Subscription Rate: $35 per year; single copy $5; Jan.-Feb. Directory $40 ($20 to members). (USPS-449-420)

the other side

by VIC REINEMER
editor, PUBLIC POWER

A LAW SIGNIFICANT to local and state governments moved almost unnoticed from Congress to the White House in the adjournment rush. The intent of the legislation is to prepare for a fair and logical rebuilding of the nation's public facilities—hospitals, water resource projects, resource recovery facilities, wastewater treatment plants, roads, bridges, railroads, mass transportation, airports, federally assisted housing, communications and public buildings.

The basic concept of P.L. 98-501, said one of its key architects, Rep. Bob Edgar (D-Pa.), is "that our national public facilities and capital needs be inventoried annually on a consistent basis, our spending priorities weighed across a broad range of investment areas, and decisions made on a rational, nonpolitical basis with regard to funding of operation and maintenance, repair and construction of public facilities."

The word for all these public facilities, many in disrepair, is infrastructure. The legislation is variously known as the Public Works Improvement Act or the Public Capital Investment Act. Oldtimers will recognize it as the capital budget bill, through the Congress at last, albeit in a different form than earlier versions.

Both major political parties can rightly claim credit for this major step toward a coherent long-term procedure for proposing and comparing capital outlays and the means of financing them, with sufficient detail to make well-considered policy decisions. Senators Robert Taft (R-Ohio) and James E. Murray (D-Mont.) included a capital budget provision in the Senate version of the Employment Act of 1945, only to lose that section in the House. In 1949 the Hoover Commission on Government Reorganization advocated separation of budget estimates into two primary categories—current operating expenditures and capital outlays. During the '50s Democratic Senators such as Hubert Humphrey of Minnesota, Wayne Morse of Oregon and Warren Magnuson of Washington advocated a capital budget, to show the value of investing public funds in development which returns revenue to federal and local governments.

John F. Kennedy endorsed the capital budget in his 1960 presidential campaign. A presidential commission in 1967 threw cold water on the idea and during the 1970s Congress concentrated on upgrading its own capacity to deal with increasing budgets. The bipartisan nature of the legislation continued in recent years as Congressman Edgar and his Republican colleague from Pennsylvania, Rep. Bill Clinger, worked closely in moving the bill forward, along with the committee leadership in the Republican Senate and Democratic House.

A council established under the legislation will analyze and report annually for three years, beginning in 1986, on the age and condition of public works facilities, methods of financing, maintenance needs and projected expenditures and policy options. The council will also develop uniform guidelines and criteria for inventory and assessment of public works. The president is to include as part of the annual budget submissions to Congress, beginning with fiscal 1986, detailed analyses of major capital investments. Military bases, posts, installations and facilities—but not weapons—will be included.

This is not legislation to add to or detract from the budget deficit. It is a tool, available to some local governments and long needed at the federal level, to grapple with domestic policy choices, and to ground these choices on firmer foundations than have been used in the past.

Correction

The paragraph from which a line was dropped in Jeff Tarbert's article, "Public Power Salaries Below Those of IOUs, Cooperatives," in the September-October issue, should have read: "More than 400 utilities participated in the 1984 (salary) survey including: 282 public power systems, 55 investor-owned utilities, 32 distribution cooperatives, 18 generation and transmission cooperatives, and 21 joint-action agencies."

Innovators Raise Questions

Questions kept popping into mind as I reviewed the summaries of hundreds of innovative public power projects and practices, beginning on page 32. How well are those shredded auto tires burning in the Lakeland, Fla., power plant? If Columbia, Mo., can dislodge fly ash with sound could someone whistle the soot out of our chimney? What other towns, besides Celina, Ohio, forego collecting an electric bill during Christmas month? Who is the person to write a PUBLIC POWER article on the increasing significance of cogeneration as a source of electric power? How many communities have, perhaps without using the phrase, a "conservation power plant," such as in Austin, Texas, and Kissimmee, Fla., where plant construction has been deferred by use of imaginative alternatives? Certainly Osage, Iowa, is one of them.

Several of the articles in this issue provide some of the answers to questions that will come to mind as you read the innovation report. We plan to have more such articles next year. Article suggestions from innovators are most welcome.

Especially interesting, I think, are the projects which show the inclination of public power systems to help solve problems larger than themselves. One example is the contribution to no-till planting equipment, by Springfield, Ill., to reduce soil erosion. Another is development of a farm to use wastewater sludge by Fort Collins, Colo.; crops from the improved land may be used in anaerobic digesters to increase methane production for the utility. A third is B.C. Hydro's injection of herbicides into young trees to ensure that the chemical enters only the tree and does not leak into the environment—an improvement over the old hack-and-squirt method. These are some of the reasons why the public comes first in public power. ✱

DIRECTORY

STATE AND FEDERAL LEGISLATIVE OUTLOOK

TEACHING—AND PRACTICING—ELECTRICAL SAFETY

ELECTRICITY PRICING IN MAJOR CITIES

ANOTHER OREGON SWITCHOVER

623,
Gilbert, gen.
sold to Pacific
n. 18,750 hydro;
ev. $690,647

Service Dept.,
re., 91206,
Cameron, dir.
l met.; gen.
eam turbine),
nbus. turbine),
653,20
Vh; rev.
*

ntucky
-3631, David
coord.; 1,659
0.5 million kWh;
1)

Y PUD, Box
41, 916/
nan, chair., bd. of
1983, not yet

ty of, Mun.
Road, Box 578,
3-9425, Dennis
dir., 3,905 met.;
,000 kWh; rev

WATER &

$6,174,531.

pt. of Water and
St., Box 111,
4, ext. 5651,
and chief
.; gen. 3,187,000
00 kW coal
000 kW gas/oil
54,000 kW
other;
; pur.
rev.

gen. 92,700 kW hydro, 542.6 million kWh; pur. none; rev. $1,915,000 (1919)

MODESTO IRRIGATION DISTRICT, Box 4060, Modesto, 95352, 209/578-1212, H.J. (Les) Brooks, gen. mgr., 67,570 met.; gen. 99,900 kW oil (combus. turbine), 52,270 kW hydro, 439,091,103 kWh; pur. 978,447,136 kWh; rev. $57,301, [illegible] (1923)*

NE D [illegible] RIGA ON DIS [illegible] Box 101 [illegible] Cal [illegible] 916/273 [illegible] Ban [illegible] gen. 79 [illegible] 56 [illegible] kWh [illegible] output sold [illegible] Electric Co.) (1921)

OROVILLE WYANDOTTE IRRIGATION DISTRICT, Box 117, Forbestown, 95941, 916/534-1221, Steven C. Onken, power supt.; gen. 101,000 kW hydro, 500 million kWh. (Output sold to Pacific Gas & Electric Co.) (1963)

PALO ALTO, City of, 250 Hamilton Ave., 94301, 415/329-2656, Richard L. Young, dir. utils., 25,947 met.; no gen.; pur. 984,080,496 kWh; rev. $24,903,520 (1900)*

PASADENA, City of, Water & Power Dept., 100 N. Garfield Ave., 91109, 213/577-4409, Karl A. Johnson, gen. mgr.; 52,281 met.; gen. 516,000,000 kWh; pur. 413.2 million kWh; rev. $45,817,062 (1906)*

PLACER COUNTY WAT AGENCY, Box 667, Forest 95631, 916/885-6917, Elmer Pretzer, 234,000 kWh; rev to Pacific Gas & Electric.) (1966)

REDDING, City of, 760 Parkview Ave., 96001, 916/246-1151, Sam Lindley, dir. elec. dept., 23,072 met.; no gen.; pur. 465,140,000 kWh; rev. $15,985,235. (1921)*

RIVERSIDE, City of, 3900 Main St., 92522, 714/787-7424, Fred Kray, pub. util. dir., 68,808 met.; gen. 19,690 kW nuclear steam turbine, 27,621,870 kWh; pur. 1,074,236,300 kWh; rev. $87,291,224. (1911)*

ROSEVILLE, City of, 316 Vernon St., 95678, 916/783-9151, Quentin Mizer, elec. util. dir.; 11,471 met.; no gen.; pur. 204,149,650 kWh; rev. $5,881,812. (1912)*

SACRAMENTO Mun. Util. Dist., 6201 S St., Box 15830, 95852-1830, 916/732-5112, John J. Mattimoe, gen. mgr., 351,203 met.; gen. 72,000 kW geothermal (steam), 913,000 kW nuclear (steam turbine), 649,000 kW hydro, 6,304,748,000 kWh; pur. 2,033,831,000 kWh; rev. $265,689,733. (1947)*

SAN FRANCISCO Pub. Utils. Comm., Rm. 287, City Hall, 94102

dir. elec. util., 40,502 met.; gen. 5,800 kW gas, (steam turbine), 34,244,000 kWh; pur. 1,815,940,568 kWh; rev. $67,839,502. (1896)*

SHASTA DAM AREA PUD, 1650 Stanton Dr., Box 777, Central Valley, 96019, 916/275-8827, Ron Young, gen. mgr.; 3,404 met.; no gen.; pur. 56,769,166 kWh; rev. $1,235,110. (1945)*

TRINITY COUNTY PUD, Box Wea ville 6093 623 Harry gen. mg met., no gen. 19,476,9 rev. $1,567,8 (1982) from CP

TRUCKEE DONNER PUD, Box 309, Truckee, 95734, 916/587-3896, Peter Holzmeister, gen. mgr., 5,835 met.; no gen.; pur. 25,539,500 kWh; rev. $4,536,724. (1927)*

TUOLUMNE COUNTY Public Power Agency, 2 S. Green St., Sonora, 95370, 209/533-5515, Dominic Sallucc, agency coordinator, 29 met.; no gen.; pur. 13 million kWh; rev. $676,000 (distributes power only to local public entities) (1982)

TURLOCK IRRIGATION DISTRICT, Box 949, Turlock, 95381, 209/632-3861, Ernest Geddes, gen. mgr., 45,935 met.; gen. 106,134 kW hydro, 978,860,353 kWh; pur. 72,086,477 kWh; rev. $34,439,078. (1922)*

gen.; pur. 75,637,466 kWh; rev.

YU AG 916 mgr.; gen. 365,000 kW hydro, 2,761,014,000 kWh; rev. $8,983,389. (Output sold to Pacific Gas & Electric Co.) (1966)

COLORADO

ASPEN, City of, 130 S. Galena, 81611, 303/925-2020, ext. 241, Thomas J. Maddalone, elec. dept. head; 2,100 met.; no gen.; pur. 39,235,200 kWh. (1956)*

BURLINGTON, City of, 480 15th St., 80807, 303/346-8652, Lester R. McLain, city mgr.; 2,034 met., gen. 7,550 kW dual-fuel; pur. 21,054,121 kWh; rev. $1,286,478. (1920)

CENTER Mun. Light and Power Sys., 400 S. Worth, Box 400, 81125, 303/754-3497, Darrell T. Davis

Utils., Box 1103, 80947, 303/636-5582, James D. Phillips dir., 107,908 met.; gen. 552,800 kW, 464,300 kW coal, 82,500 kW gas (steam turbine), 6,000 kW hydro; 2,719,657,000 kWh; pur. 561,075,000 kWh; rev. $103,43 (1925)

DELTA Mun. Light & Power, 1133 Main St., Box 19, 81416, 303/874-7566, Richard Baker, power plt. supvr.; 1,979 met.; gen. 422 kW oil, kW 1,027, kWh 542 k rev. 9 *

ESTES Light, Power Dept., Box 1200, 80517, 303/586-5486, Robert L. Dekker, dir.; 5,892 met.; no gen.; pur. 64,050,086 kWh; rev. $3,981,474 (1945)*

FLEMING, Box 466, 80728, Lester Harms, mayor; 146 met.; no gen.; pur. 1,990,400 kWh.

FORT COLLINS Light & Power Utility, Box 580, 80520, 303/221-6700, Bill D. Carnahan, gen. mgr.; 27,874 met.; no gen.; pur. 529,720,123 kWh; rev. $28,739,215 (1935)*

FORT MORGAN, City of, 710 E. Rai 303 supt 190 (1906)*

gen.; pur. 75,630,007 kWh; rev.

80530, 303/833-2388, Edward J.

GLENWOOD SPRINGS Elec.

pur. 61,944,800 kWh; rev. $3,327 (1953)*

GRANADA, Town of, 109 E. Goff St., Box 258, 81041, Thelma Schildknecht, town clerk; 200 met.; 303/734-5411.

GUNNISON, City of, Box 239, 81230, 303/641-2443, Dale Howard city mgr.; 2,698 met.; no gen.; pur. 41,853,998 kWh; rev. $1,283,190. (1880s)*

HAXTUN Mun. Light & Power Dept., 145 S. Colorado Ave., Box 205, 80731, 303/774-6104, R. D. Orcutt, supt.; 585 met.; no gen.; pur. 100,193 kWh; rev. $216,000. (1918)

HOLLY, Town of, Box 458, 81047, 303/537-6622, Dorothy Cook, town clerk; 671 met.; no gen.; pur. 6,366,720 kWh; rev. $352,979. (1949)

RG, 303/ Mikelson, town 3,060 kW oil (en kWh; rev. $633,

LA JUNTA City 81050, 303/ A. Sarlo, city mg 19,253 dual-fuel kWh; pur. 56,65 $3,825,140 (193

LAM Utils. 52, 303/ supt.; 5,4 kW gas (W oil (en kW pur. 33,77 $6,200,933. (19

LAS ANIMAS Power, Box 271, 303/456-1621, 1,931 met.; gen. kW dual-fuel (en pur. 21,323,000 $1,010,962. (194

LONGMONT, Box 518, Lyons 303/776-6050, Plumb, deputy met.; gen. 600 k kWh; sales 15,71 $281,319,739. (1

385,942,000 kW

pub. wks. dir.; 50

80467, 303/736-

SPRINGFIELD

kWh. (1949)

TRINIDAD Mun 135 N. Animas, 303/846-9843; D 4,644 met.; gen. (steam turbine), turbine); 3,750 d 9,620,000 kWh; kWh; rev. $2,725

WALSENBURG Albert, 81089, 3 Richard Abila, s gen.; pur. 16,725 1,230,341. (1952

WRAY City of, 2 80758, 303/332- Snedeker, city m gen.; pur. 16,729, $702,719. (1903)

YUMA City of, S. Main St., 807 or 2147, Paul M

public power

JANUARY-FEBRUARY 1985
VOLUME 43 NUMBER 1

APPA'S 100-page annual Directory, including charts depicting historical relationships among public, private, cooperative and federal electric power systems, begins opposite page 40.

6 **OUTLOOK AND INSIGHTS** by Alex Radin
"Electric utilities' stake in automation goes beyond immediate self-interest."

10 **OVERCOMING THE OBSTACLES** by Sara Sells and Fergus Pilon
"Columbia River People's Utility District is finally serving an Oregon community that has been steadfast for 45 years in its support of public power."

14 **KIDS LISTEN TO LINEWORKERS** by Clyde E. Blair
"The success of the school safety program run by the Kansas City (Kan.) Board of Public Utilities is due in no small measure to the volunteer lineworkers."

18 **MANY ACTIONS IN STATES AFFECTING PUBLIC POWER**
by Anne Marie Gibbons
"Examining these actions may trigger a solution in another state, or indicate possible future legislative, court and regulatory action."

28 **PRICE OF ELECTRICITY IN MAJOR CITIES COMPARED**
"The price of basic residential electric service is lowest in three cities served by public power and highest in 11 cities served by private power."

32 **MORE OF THE SAME LIKELY IN 99TH CONGRESS** by Alan Richardson
"Preference, tax-exempt financing, freight rates for captive shippers, and construction-work-in-progress will almost certainly be considered."

45 **MUNICIPALS GRANTED RELIEF FROM ANTITRUST DAMAGES**
by Carlos C. Smith
"While the new antitrust act is beneficial to municipalities and municipal power systems it does not end exposure to antitrust claims."

50 **THE CWIP CHRONICLE** by Ted Handel
At 12:30 a.m. Oct. 3, after 10 minutes consideration on the Senate floor, the congressional battle over construction-work-in-progress came to a close.

54 **LOCAL SYSTEMS BUDGET $5.65 BILLION FOR 1985 PLANT WORK**
by Jeannie Kilmer
"Transmission and distribution spending is projected to rise 13.4 percent; generation expenditures will decrease an estimated 12.2 percent this year."

61 **SAFETY BEGINS AT HOME** by Commissioner Stuart M. Statler
Tour your abode with these Consumer Product Safety Commission recommendations; reduce loss of life and property through improper use of electricity.

72 LETTERS **73 NEW PRODUCTS** **74 APPA PAPERS**
75 BOOKS **75 AD INDEX** **78 MEETINGS**

77 **INSIDE APPA** by Priscilla Knight
Campaign launched to protect preference, cost-based rates; APPA survey shows wide variance in electricity rate structures and prices.

80 **THE OTHER SIDE** by Vic Reinemer
Public power has but one plantation, and one fire district, but a lot of authorities—a diverse lot including federal, state, multistate, local, provincial and tribal institutions.

Editor and publisher, VIC REINEMER
Managing editor, LORI A. WOEHRLE
Associate editor, JEANNE WICKLINE LABELLA
Engineering editor, HERBERT I. BLINDER
Conservation editor, KAREN ANDERSON
Research editor, MICHAEL K. BERGMAN
Economics editor, JOHN KELLY
Innovations editor, JACQUIE COCHRAN
Consulting designer, LECKIE/LEHMANN

Contributing editors:
RALPH ALLEN
LARRY BRUNEEL
MADALYN CAFRUNY
TONI CLARK
PAUL FRY
CINDY GASKILL
ANNE MARIE GIBBONS
RUTH GONZE
TED HANDEL
LAWRENCE HOBART
KAREN HUNSAKER
JEANNIE KILMER
PRISCILLA KNIGHT
NANCY MOONEY
DEBBIE NUTTALL
EILEEN PEERLESS
ALEX RADIN
ALAN H. RICHARDSON
GORDON ROBERTS
HEIDI SCHWARTZ
RANDY SWISHER
JEFF TARBERT

Advertising manager, W. E. (Trez) Lee; *Assistant advertising manager*, Peggy Douglas; *Circulation manager*, Margaret I. Winfough; *Classified advertising manager*, LaVeer Jordan.

Editorial and advertising offices: 2301 M St. N.W., Washington, D.C. 20037. 202/775-8300

PUBLIC POWER *is the official publication of the American Public Power Association. Opinions expressed in signed articles are not necessarily* APPA *policies. For permission to reprint articles write or call the publisher.*

Published bimonthly, PUBLIC POWER is a member of Business Publication Audit of Circulation, Inc. (BPA) and the Society of National Association Publications (SNAP). Second-class circulation postage paid at Washington, D.C. Subscription Rate: $35 per year; single copy $5; Jan.-Feb. Directory $40 ($20 to members). (USPS-449-420)

PRICE OF ELECTRICITY IN MAJOR CITIES COMPARED

AMONG THE NATION'S 30 LARGEST CITIES, the price of basic residential electric service is lowest in three cities served by public power systems, and highest in 11 cities served by private power companies.

The price of 500 kWh of electricity ranged from 1.6 cents per kWh in Seattle, Wash., served by Seattle City Light, to 15 cents per kWh in New York, N.Y., served by Consolidated Edison Co.

Three of the cities—Cleveland and Columbus, Ohio, and Phoenix, Ariz.—are served by both public and private utilities. The price of 500 kWh provided by the publicly owned systems was lower in Cleveland and Phoenix, higher in Columbus. Of the 33 electric systems serving the 30 cities, nine are publicly owned.

The 500-kWh bill reflects winter-rate charges for lighting, small appliances, refrigeration and cooking. The bills are calculated under rate schedules generally applicable to the majority of customers; utilities may have other schedules that produce bills different than those reported.

The nine publicly owned systems and their cents-per-kWh charge for 500 kWh are:

- Seattle (Wash.) City Light, 1.6;
- Nashville (Tenn.) Electric Service, 4.9;
- Memphis (Tenn.) Gas, Light and Water Division, 5.1;
- Los Angeles (Cal.) Department of Water and Power, 6.6;
- San Antonio (Texas) City Public Service Board, 7.2;
- Cleveland (Ohio) Division of Light and Power, 7.6;
- Jacksonville (Fla.) Electric Authority, 7.7;
- Columbus (Ohio) Division of Electricity, 7.7; and
- Salt River Project, Phoenix, Ariz., 7.9.

The 11 utility corporations with the most expensive 500-kWh service in the largest cities and their prices in cents per kWh are:

- Consolidated Edison Co., New York, N.Y., 15.0;
- San Diego Gas & Electric Co., San Diego, Cal., 12.1;
- Boston Edison Co., Boston, Mass., 11.1;
- El Paso Electric Co., El Paso, Texas, 10.5;
- Philadelphia Electric Co., Philadelphia, Pa., 10.0;
- Duquesne Light Co., Pittsburgh, Pa., 9.4;
- Commonwealth Edison Co.; Chicago, Ill., 9.2;
- Arizona Public Service Co., Phoenix, Ariz., 8.5;
- Kansas City Power & Light Co., Kansas City, Mo., 8.3.;
- Cleveland Electric Illuminating Co., Cleveland, Ohio, 8.2; and
- Houston Lighting & Power Co., 8.1.

This comparison of electric bills as of Jan. 1, 1984, by Jeannie Kilmer, APPA manager of statistics and data processing, is based upon utility reports to the U.S. Energy Information Administration.

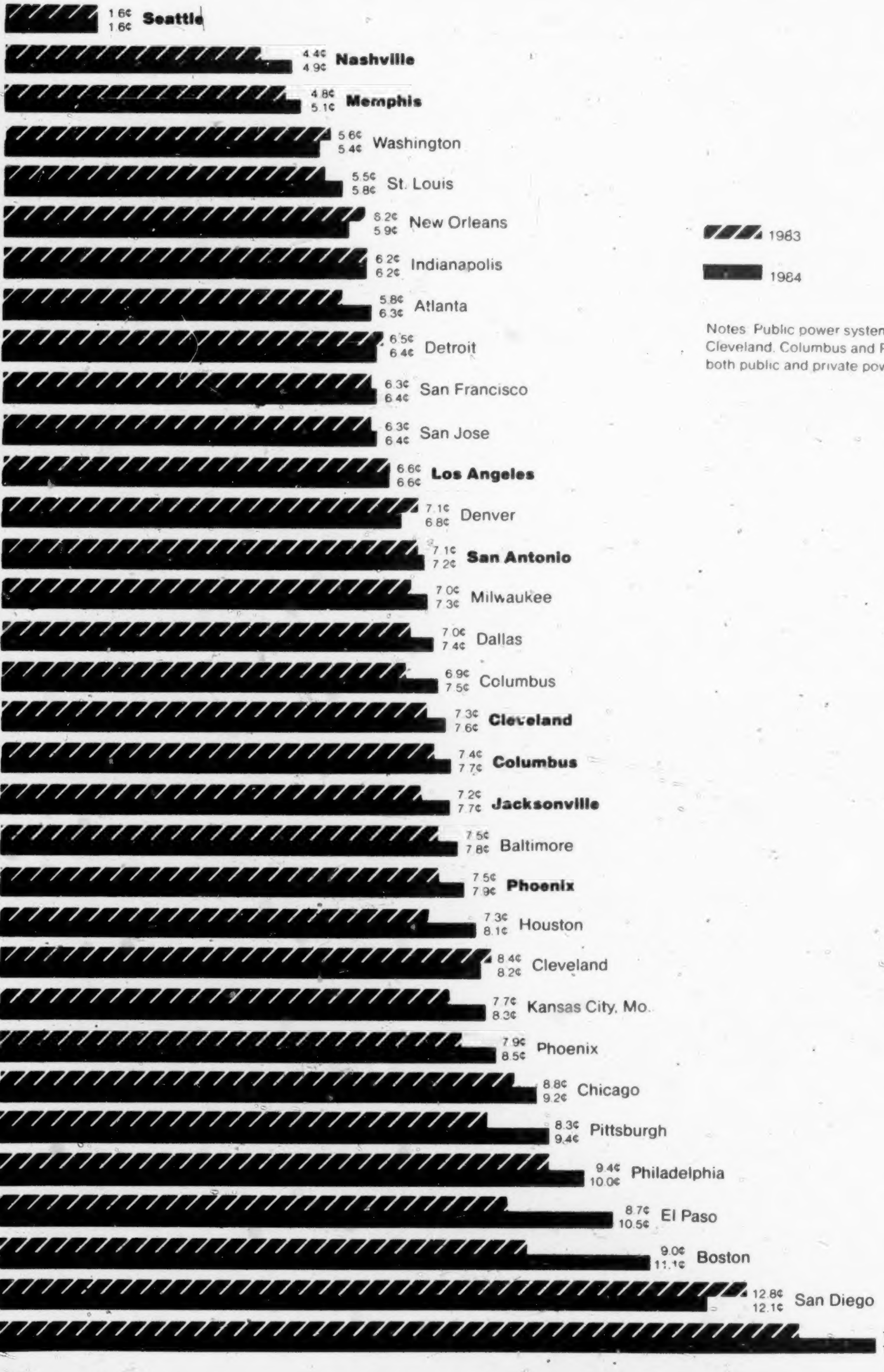
The price of 500 kWh in 1984 increased in 24 of the 33 systems, decreased in six and stayed the same in three. The *increase* in the price per kWh in two cities, Boston and El Paso, amounted to 2.1 cents and 1.8 cents respectively, more than the *total* cost per kWh in Seattle.

APPA Executive Director Alex Radin, commenting on this comparison of basic electric prices in major cities, noted that only one of the nine public systems—Seattle—obtains more than one-third of its power from hydroelectricity, which is relatively low cost. Memphis and Nashville, he said, receive all of their bulk power supply from the Tennessee Valley Authority. Hydroelectricity accounts for only about 18 percent of TVA's generation, which is primary coal-fired.

"I am pleased that public power systems are taking the lead in providing reasonable rates for the category of customers which includes many low-income households," Radin said.

This is the second year that APPA has surveyed basic residential electric prices in major cities. ✸

Price per kWh of 500 kWh of Electricity in the 30 Largest U.S. Cities, Jan. 1, 1984



Notes: Public power systems are in **bold** type. Cleveland, Columbus and Phoenix are served by both public and private power systems.

Util. Dist., Box
4623,
Gilbert, gen.
t sold to Pacific
n 18,750 hydro;
rev. $690,647

Service Dept.,
ve., 91206,
Cameron, dir.
l met., gen.
team turbine),
mbus. turbine),
,653,200
Wh; rev.
)*

6-3611, David
v. coord.; 1,659
20.5 million kWh,
01

EY PUD, Box
041, 916/
man chair., bd. of
1983, not yet

City of, Mun.
Road, Box 578,
33-9425, Dennis
l. dir.; 3,905 met.;
3,000 kWh; rev.

WATER &
L, 693 Vermont
94107,
an Coffey, gen.
etail residential
2,500 kW hydro,
n; sales
n; rev.
)*

GATION
Barioni Blvd.,
19/339-9200,
, gen. mgr.;
91,100 dual fuel
7,450 kW oil
117,550 gas
13,276 kW oil
hydro, 446,756
70,082 kWh; pur.
rev. $70,360,286.

x 320, 95241,
avid K. Curry,
et.; no gen., pur.
rev. $14,047,085.

, 100 Civic
38, 805/736-1261,
city admin.,
n.; pur.
ev. $6,174,531

Dept. of Water and
ne St., Box 111,
04, ext. 5651,
gr. and-chief
et.; gen. 3,187,000
000 kW
,000 kW gas/oil
954,000 kW
other;
/h; pur.
n; rev.
925)*

Anderson, sec. mgr.; wholesale only, gen. 92,700 kW hydro, 542.6 million kWh; pur. none; rev. $1,915,000. (1919)

MODESTO IRRIGATION DISTRICT, Box 4060, Modesto, 95352, 209/578-1212, H.L. (Les) Brooks, gen. mgr., 67,570 met.; gen. 99,900 kW oil (combus. turbine), 52,270 kW hydro, 439,091,103 kWh; pur. 978,447,136 kWh; rev. $57,301 0. (1923)*

NE D IGA ON DIS Box 101 Cal 9 916/273 Ba n gen. 79 56 4 kWh; $ 8 0 utput sol lic G & Electric Co.) (1921)

OROVILLE WYANDOTTE IRRIGATION DISTRICT, Box 117, Forbestown, 95941, 916/534-1221, Steven C. Onken, power supt.; gen. 101,000 kW hydro, 500 million kWh. (Output sold to Pacific Gas & Electric Co.) (1963)

PALO ALTO, City of, 250 Hamilton Ave., 94301, 415/329-2656, Richard L. Young, dir. utils.; 25,947 met., no gen.; pur. 984,080,496 kWh; rev. $24,903,520. (1900)*

PASADENA, City of, Water & Power Dept., 100 N. Garfield Ave., 91109, 213/577-4409, Karl A. Johnson, gen. mgr.; 52,281 met.; gen. 516,000,000 kWh; pur. 413.2 million kWh; rev. $45,817,062. (1906)*

PLACER COUNTY WATER AGENCY, Box 667, Foresthill, 95631, 916/885-6917, Elmer Pretzer, power systems mgr.; gen. 234,000 kW (hydro); 558,464,271 kWh; rev. $5,628,000. (Output sold to Pacific Gas & Electric.) (1966)

REDDING, City of, 760 Parkview Ave., 96001, 916/246-1151, Sam Lindley, dir. elec. dept.; 23,072 met.; no gen., pur. 465,140,000 kWh; rev. $15,985,235. (1921)*

RIVERSIDE, City of, 3900 Main St., 92522, 714/787-7424, Fred Kray, pub. util. dir.; 68,808 met.; gen. 19,690 kW nuclear steam turbine, 21,621,870 kWh; pur. 1,074,236,300 kWh; rev. $87,291,224. (1911)*

ROSEVILLE, City of, 316 Vernon St., 95678, 916/783-9151, Quentin Mizer, elec. util. dir.; 11,471 met.; no gen., pur. 204,149,650 kWh; rev. $5,881,812. (1912)*

SACRAMENTO Mun. Util. Dist., 6201 S St., Box 15830, 95852-1830, 916/732-5112, John J. Mattimoe, gen. mgr.; 351,203 met.; gen. 72,000 kW geothermal (steam), 913,000 kW nuclear (steam turbine), 649,000 kW hydro, 6,304,748,000 kWh; pur. 2,033,831,000 kWh; rev. $265,689,733. (1947)*

SAN FRANCISCO Pub. Utils. Comm., Rm. 287, City Hall, 94102, 415/558-4986, Rudy Nothenberg,

408/984-3044, James W. Beck, dir. elec. util., 40,502 met.; gen. 5,800 kW gas, (steam turbine), 34,244,000 kWh; pur. 1,815,940,568 kWh; rev. $67,839,502. (1896)*

SHASTA DAM AREA PUD, 1650 Stanton Dr., Box 777, Central Valley, 96019, 916/275-8827, Ron Young, gen. mgr.; 3,404 met.; no gen.; pur. 56,769,166 kWh; rev. $1,235,116. (1945)*

TRINITY COUNTY PUD, Box V, Wea vill 6093, 462 46 Harry Ja gen. mg met.; no gen.; p 19,476,9 rev. $1,567,8 (1982) from CP

TRUCKEE DONNER PUD, Box 309, Truckee, 95734, 916/587-3896, Peter Holzmeister, gen. mgr.; 5,835 met.; no gen.; pur. 75,539,500 kWh; rev. $4,536,724. (1927)*

TUOLUMNE COUNTY Public Power Agency, 2 S. Green St., Sonora, 95370, 209/533-5515, Dominic Sallucc, agency coordinator, 29 met.; no gen.; pur. 13 million kWh; rev. $676,000 (distributes power only to local public entities) (1982)

TURLOCK IRRIGATION DISTRICT, Box 949, Turlock, 95381, 209/ Geddes, gen. 206,134 kW kWh, pur. 72 $34,439,078

1985 DIRECTORY

UKIAH, City of, 203 S. School St., 95482, 707/462-2971, Maurice K. Roper, dir. elec. util., 6,186 met.; no gen., pur. 75,632,486 kWh; rev. $4,711,998. (1897)*

VERNON, Light & Power Dept., 4305 Santa Fe Ave., 90058, 213/583-8811, Bruce V. Malkenhorst, exec. dir.; 2,083 met.; no gen.; pur. 1,222,633,000 kWh; rev. $61,596,196. (1933)*

YUBA COUNTY WATER AGENCY, Box 176, Dobbins, 95935, 916/692-1633, Daryl D. Sutton, mgr.; gen. 365,000 kW hydro, 2,761,014,000 kWh; rev. $8,983,389. (Output sold to Pacific Gas & Electric Co.) (1966)

COLORADO

ASPEN, City of, 130 S. Galena, 81611, 303/925-2020, ext. 241, Thomas J. Maddalone, elec. dept. head; 2,100 met.; no gen.; pur. 39,235,200 kWh. (1956)*

BURLINGTON, City of, 480 15th St., 80807, 303/346-8652, Lester R. McLain, city mgr.; 2,034 met.; gen. 7,550 kW dual-fuel; pur. 21,054,121 kWh; rev. $1,286,478. (1920)

CENTER Mun. Light and Power Sys., 400 S. Worth, Box 400, 81125, 303/754-3497, Darrell T. Davis, supt.; 847 met.; 1,700 kW, 1,200 kW oil (eng.), 500 kW dual-fuel (eng.);

COLORADO SPRINGS, Dept. of Utils., Box 1103, 80947, 303/636-5582, James D. Phillips, dir.; 107,908 met.; gen. 552,800 kW, 464,300 kW coal, 82,500 kW gas (steam turbine), 6,000 kW hydro; 2,719,657,000 kWh; pur. 561,075,000 kWh; rev. $103,437,435. (1925)*

DELTA Mun. Light & Power, 1133 Main St., Box 19, 81416, 303/874-7566, Richard Baker, power plt. supvr.; 1,979 met.; gen. 422 V oil 7 kW al-fu 1,027 kWh r 542 k rev.

ESTES Light Power Dept., Box 1200, 80517, 303/586-5486, Robert L. Dekker, dir.; 5,892 met.; no gen.; pur. 64,050,086 kWh; rev. $3,981,474. (1945)*

FLEMING, Box 466, 80728, Lester Harms, mayor; 146 met.; no gen.; pur. 1,990,400 kWh.

FORT COLLINS Light & Power Utility, Box 580, 80520, 303/ 21-6700, Bill D. Carnahan, gen. mgr.; 27,874 met.; no gen.; pur. 529,720,123 kWh; rev. $28,739,215. (1935)*

FORT MORGAN, City of, 710 E.

FOUNTAIN, City of, 116 S. Main St., 80817, 303/382-5604, Frank Bustamento, supt.; 7,356 met.; no gen.; pur. 75,630,007 kWh; rev. $2,936,506.

FREDERICK, Town of, Box 435, 80530, 303/833-2388, Edward J. Taglient, mayor; 300 met.; no gen.; pur. 3,992,300 kWh; rev. $137,356.

GLENWOOD SPRINGS Elec. System, 302 W. 8th St., 81601, 303/945-6672, 945-2575, Michael Copp, city mgr.; 4,355 met.; no gen.; pur. 61,944,800 kWh; rev. $3,923,117. (1953)*

GRANADA, Town of, 109 E. Goff St., Box 258, 81041, Thelma Schibblehut, town clerk; 200 met.; 303/734-5411.

GUNNISON, City of, Box 239, 81230, 303/641-2443, Dale Howard city mgr.; 2,698 met.; no gen.; pur. 41,853,998 kWh; rev. $1,283,190. (1880s)*

HAXTUN Mun. Light & Power Dept., 145 S. Colorado Ave., Box 205, 80731, 303/774-6104, R. D. Orcutt, supt.; 585 met.; no gen.; pur. 100,193 kWh; rev. $216,000. (1918)

HOLLY, Town of, Box 458, 81047, 303/537-6622, Dorothy Cook, town clerk; 671 met.; no gen.; pur. 6,366,720 kWh; rev. $352,979. (1949)

HOLYOKE, City of, 207 W. Denver St., 80734, 303/854-2266, Les

JULESBURG
St., 80737, 30
Mikelson, tow
3,060 kW oil
kWh; rev. $6

LA JUNTA C
630, 81050, 3
A. Sarlo, city
19,253 dual-f
kWh; pur. 56
$3,825,140. (

LAM , Uti
352, 30
supt.;
34, kW g
W oil
kW pur. 33
$6,200,933. (

LAS ANIMA
Power, Box 2
303/456-162
1,931 met.; g
kW dual-fuel
pur. 21,323,0
$1,010,962. (

LONGMONT
Box 518, Lyo
303/776-6050
Plumb, deput
met.; gen. 60
kWh; sales 1
$281,319,739

LYONS, Tow
80540, 303/8
pub. wks. dir.
pur. 170,449

OAK CREEK
80467, 303/7
town mgr.; 50
$155,200

SPRINGFIEL
81073, 303/5
Lithe, supt.;
kW dual-fuel
kWh. (1949)

TRINIDAD
135 N. Anim
303/846-984
4,644 met.; g
(steam turbin
turbine), 3,75
9,620,000 kW
kWh; rev. $2

WALSENBU
Albert, 8108
Richard Abil
gen., pur. 16,
1,230,341. (1

WRAY City
80758, 303/3
Snedeker, cit
gen.; pur. 16,
$702,719. (19

YUMA City
S. Main St.,
or 2147, Paul
1,350 met.; g
oil-fired eng.

Directory Contents

D-3 About the Directory

STATISTICS

D-4 U.S. Electric Utility Statistics
D-5 20 Largest State and Local Publicly Owned Electric Systems—Electric Customers Served, Net Electric Plant, kWh Sales, Electric Revenues

CHARTS

D-6 Electricity's Average Cost per kWh 1946-1982
Number of Electric Systems, by Ownership 1890-1984
D-7 Installed Utility Generating Capacity, by Ownership 1898-1983
Kilowatt-hours Generated by Utilities, by Ownership 1902-1983
Kilowatt-hour Sales to Ultimate Customers 1917-1983
D-8 Electric Utility Operating Revenues 1937-1983
Number of Ultimate Electric Utility Customers 1917-1983
D-9 Net Electric Utility Plant 1946-1983
Expenditures by Local Systems for Generation, Transmission and Distribution 1971-1984
D-10 Cost of Production per kWh Sold, Public and Private Utilities 1969-1982
Cost of Transmission per kWh Sold, Public and Private Utilities 1969-1982
Distribution Expenses per kWh Sold, Public and Private Utilities 1969-1982
Administrative and General Expenses per kWh Sold, Public and Private Utilities 1969-1982
D-11 Accounting and Collection Expenses per kWh, Public and Private Utilities 1969-1982
Customer Service, Information and Sales Expenses per kWh, Public and Private Utilities 1969-1982
Installed Generating Capacity of Public Power Systems by Type of Fuel, 1980-1983

LOCAL PUBLICLY OWNED UTILITIES

D-12 Ala., Alaska
D-13 Ariz., Ark.
D-14 Cal.
D-15 Colo., Conn., Del.
D-16 Fla.
D-17 Ga.
D-18 Idaho, Ill.
D-19 Ind.
D-20 Iowa
D-25 Kan.
D-29 Ky., La.
D-31 Maine, Md., Mass.
D-33 Mich.
D-34 Minn.
D-38 Miss., Mo.
D-40 Mont., Neb.
D-46 Nev., N.H., N.J., N.M., N.Y.
D-47 N.C.
D-50 N.D., Ohio
D-52 Okla.
D-53 Ore.
D-54 Pa., R.I., S.C.
D-56 S.D., Tenn.
D-60 Texas
D-61 Utah
D-62 Vt., Va.
D-63 Wash.
D-64 W. Va., Wis.
D-66 Wyo., American Samoa, Canal Zone, Guam, Puerto Rico, Virgin Islands

ORGANIZATIONS OF PUBLICLY OWNED UTILITIES

D-68 Joint-Action Agencies
D-73 National, Regional, State Associations

OTHER LISTINGS

D-75 Federal Power Agencies
D-78 Major Canadian Electric Utilities
D-82 Publicly Owned Cable Communication Systems

APPA CO-OP, ASSOCIATE MEMBERS

D-88 Electric Cooperatives, Corporate Associates
D-89 Individual Associates

INDEX

D-92 PUBLIC POWER Magazine Index, 1984

This Directory is part of PUBLIC POWER, *the bimonthly publication of the American Public Power Association, 2301 M St. N.W., Washington, D.C. 20037; 202/775-8300. Copies of the directory are available, from the* APPA *publications department, for $20 to* APPA *members, or $40 to nonmembers. Write or call the* PUBLIC POWER *circulation department to subscribe to the magazine ($35 a year).*

About the Directory . . .

THE PUBLIC POWER DIRECTORY, published annually, includes information about more than 2,100 local publicly owned electric systems in the United States, organizations of these utilities, federal power agencies, major Canadian electric utilities, publicly owned cable communications systems, identity of APPA members and associate members, and statistics and charts comparing the public, cooperative and private sectors of the electric power industry. The directory includes an index, by author and subject, of articles published in 1984 issues of PUBLIC POWER magazine. Book reviews are also listed.

Included in the directory are: municipal electric systems; public utility districts; people's utility districts; public power districts; other types of state and county electric systems; organizations which include local publicly owned electric systems; and federal power agencies. *Not included* in the directory are: private electric power companies and—except for APPA members—rural electric cooperatives.

Listings include the following information where available: name of utility; address, including mailing zip code; telephone number, including area code and local number; chief executive officer, usually superintendent (supt.) or manager (mgr.); number of meters (met.) served; generation (gen.) by type; including steam, gas turbine, internal combustion engine (eng.), hydroelectric (hydro) in kilowatts (kW) or megawatts (MW) of capacity, usually nameplate ratings, and total generation for the latest available year in kilowatt-hours (kWh); power purchased (pur.) at wholesale or sold—for latest full year, either calendar or fiscal—in kilowatt-hours; annual electric revenues (rev.) for the latest available year; and year the system was established. A small four (4) at the end of an entry means the principal data therein was obtained in 1984. A small three (3) means the principal data was obtained in 1983, etc. An asterisk (*) denotes APPA membership.

Local publicly owned electric utilities are listed alphabetically by state. Municipal systems are listed by the name of the city. Other types of local public power systems—public utility districts, people's utility districts, public power districts and other electric systems owned by units of local or state government—are listed alphabetically by the name of the utility. Public utility districts are usually shown by the name of the county served.

The directory lists local publicly owned electric utilities in 49 states, the Canal Zone, Puerto Rico, Virgin Islands, Guam and American Samoa. There are no local public systems in Hawaii.

Nebraska, the only state in which all electric utility service is consumer-owned—provided by either public or cooperative systems—leads the nation with 156 local publicly owned utilities. In addition 214 communities in Nebraska own municipal electric systems which are operated under lease agreements by Nebraska Public Power District; 22 communities lease their municipal electric utilities to Loup River Public Power District; and five communities lease to other Nebraska systems. Thus the state has a total of 397 local publicly owned electric utilities.

Other leading states in numbers of local, publicly owned systems are: Iowa, 140; Kansas, 126; Minnesota, 125; Wisconsin, 84; Ohio, 83; Missouri, 82; Texas, 74; North Carolina 72; Indiana, 72; Oklahoma, 69; and Tennessee, 63.

All state totals are listed in the adjacent column. The table shows that four states have more than 100 local publicly owned electric utilities, and 14 states have 50 or more local publicly owned power systems.

This is PUBLIC POWER's 24th annual directory. Changes from the previous directories, including the numbers of systems shown for several states and the national total, reflect corrections from the earlier listings as well as changes during the past year.

Although PUBLIC POWER is responsible for the directory, the editors acknowledge with gratitude the many sources of information which have made it possible to compile the most accurate listing of local publicly owned electric utilities ever published.

These sources include hundreds of local publicly owned utilities which submitted information to PUBLIC POWER on a survey form; records and files of the American Public Power Association, the national service organization of the local publicly owned electric utilities; officials of regional and state associations, joint-action agencies and the federal government; and many individual officials of public power systems and the APPA staff. ✷

Local publicly owned electric utilities

State	*number*
Alabama	36
Alaska	20
Arizona	18
Arkansas	15
California	39
Colorado	30
Connecticut	6
Delaware	9
Florida	33
Georgia	52
Hawaii	0
Idaho	12
Illinois	41
Indiana	72
Iowa	140
Kansas	126
Kentucky	30
Louisiana	22
Maine	6
Maryland	5
Massachusetts	40
Michigan	41
Minnesota	125
Mississippi	23
Missouri	82
Montana	4
Nebraska	397
Nevada	8
New Hampshire	5
New Jersey	9
New Mexico	8
New York	50
North Carolina	72
North Dakota	11
Ohio	83
Oklahoma	69
Oregon	17
Pennsylvania	34
Rhode Island	1
South Carolina	22
South Dakota	35
Tennessee	63
Texas	74
Utah	36
Vermont	15
Virginia	17
Washington	42
West Virginia	2
Wisconsin	84
Wyoming	12
American Samoa	1
Canal Zone	1
Guam	1
Puerto Rico	1
Virgin Islands	1
Total	2,195

U.S. ELECTRIC UTILITY STATISTICS

Additions and corrections to be included in the next directory should be sent to PUBLIC POWER Directory, 2301 M St. N.W., Washington, D.C. 20037.

Local public system statistics are from the American Public Power Association. Private company figures are from the Energy Information Administration. Rural electric data are from the Rural Electrification Administration. Federal power statistics are compiled from annual reports of the federal power marketing agencies and data reported to APPA.

NUMBER OF SYSTEMS

Private power companies	210
Local publicly owned systems, including municipals, public utility districts and state and county systems	2,195
Publicly owned joint action agencies	57
Rural electrics (including 870 distribution co-ops) and 59 generation and transmission co-ops	929
Federal power agencies	12
TOTAL	3,403

		1983	1983 %	1982	1982 %
NUMBER OF CUSTOMERS	Local public systems	13,063,000p	13.4	12,796,451	13.4
	Private	73,772,000	75.7	72,783,000	76.1
	REA borrowers	10,555,401	10.8	10,096,448	10.6
	Federal	14,193	.01	13,849	.01
	TOTAL	97,404,594	100	95,689,748	100
KWH SALES *(to ultimate customers in millions of kWh)*	Local public systems	317,000p	14.6	310,367r	14.6
	Private	1,645,106	75.7	1,597,951	75.4
	REA borrowers	155,956	7.2	151,733	7.2
	Federal	54,781	2.5	60,307	2.8
	TOTAL	2,172,843	100	2,120,358	100
ELECTRIC OPERATING REVENUES *(in thousands of dollars)*	Local public systems	$ 18,078,000p	11.5	$ 16,747,068	11.4
	Private	117,325,214	74.4	109,960,535	75.1
	REA borrowers	15,736,190	10.0	13,982,308	9.5
	Federal	6,572,516	4.2	5,824,014	4.0
	TOTAL	$157,711,920	100	146,513,925	100
NET ELECTRIC PLANT INVESTMENT *(in thousands of dollars, does not include nuclear fuel)*	Local public systems	$ 45,224,000p	11.9	$ 41,833,105	12.0
	Private	269,345,172	71.1	250,223,870	71.5
	REA borrowers	38,027,008	10.0	33,796,354	9.7
	Federal	25,969,792	6.9	23,958,733	6.8
	TOTAL	$378,565,972	100	$349,812,062	100
INSTALLED CAPACITY *(in thousands of kW)*	Local public systems	74,700p	11.5	71,740r	11.1
	Private	482,610	74.2	485,488	74.9
	REA borrowers	24,839	3.8	23,151	3.6
	Federal	68,518	10.5	68,155r	10.5
	TOTAL	650,667	100	648,534	100
KWH GENERATION *(in millions of kWh)*	Local public systems	229,000p	9.7	221,383	9.8
	Private	1,764,080	75.0	1,711,576	75.5
	REA borrowers	93,059	4.0	81,568	3.6
	Federal	264,971	11.3	252,803	11.1
	TOTAL	2,351,110	100	2,267,330	100

r—revised p—preliminary

20 LARGEST STATE & LOCAL PUBLICLY OWNED ELECTRIC SYSTEMS

ELECTRIC CUSTOMERS SERVED—1983

1.	Los Angeles (Cal.) Department of Water and Power	1,238,752
2.	Puerto Rico Electric Power Authority*	1,026,318
3.	San Antonio (Texas) City Public Service Board	383,615
4.	Sacramento (Cal.) Municipal Utility District	351,203
5.	Salt River Project, Phoenix, Ariz.*	350,710
6.	Memphis (Tenn.) Light, Gas and Water Division	312,149
7.	Seattle (Wash.) City Light	294,579
8.	Jacksonville (Fla.) Electric Authority*	236,580
9.	Omaha (Neb.) Public Power District	219,355
10.	Nashville (Tenn.) Electric Service*	214,764
11.	Austin (Texas) Electric Utility*	201,574
12.	Snohomish County Public Utility District, Everett, Wash.	154,146
13.	Knoxville (Tenn.) Utilities Board	133,730
14.	Chattanooga (Tenn.) Electric Power Board	126,658
15.	Orlando (Fla.) Utilities Commission*	115,928
16.	Tacoma (Wash.) City Light	109,238
17.	Colorado Springs (Colo.) Department of Public Utilities	107,908
18.	Nebraska Public Power District, Columbus, Neb.	107,609
19.	Anaheim, City of, Cal	88,099
20.	Lansing (Mich.) Board of Water and Light	84,725

NET ELECTRIC PLANT—1983

1.	Salt River Project, Phoenix, Ariz.*	$2,723,324,618
2.	Los Angeles (Cal.) Department of Water and Power	2,560,470,958
3.	New York Power Authority	2,539,462,000
4.	South Carolina Public Service Authority*	1,660,542,515
5.	San Antonio (Texas) City Public Service Board	1,643,012,434
6.	Puerto Rico Electric Power Authority*	1,614,466,000
7.	Nebraska Public Power District, Columbus, Neb.	1,429,918,000
8.	Municipal Electric Authority of Georgia	1,231,043,195
9.	Austin (Texas) Electric Utility*	1,103,261,018
10.	Sacramento (Cal.) Municipal Utility District	1,093,612,000
11.	Texas Municipal Power Agency*	945,200,000
12.	Omaha (Neb.) Public Power District	905,880,489
13.	California Department of Water Resources	789,589,000
14.	Massachusetts Municipal Wholesale Electric Co.	618,033,918
15.	Chelan County Public Utility District, Wenatchee, Wash.	615,825,529
16.	Lower Colorado River Authority, Austin, Texas	552,838,962
17.	Grand River Dam Authority, Vinita, Okla.	505,910,179
18.	Jacksonville (Fla.) Electric Authority*	502,218,808
19.	Seattle (Wash.) City Light	468,827,915
20.	Michigan Public Power Agency	396,013,360

KWH SALES—1983

1.	New York Power Authority	39,392,176,000
2.	Los Angeles (Cal.) Department of Water and Power	18,912,664,000
3.	Salt River Project, Phoenix, Ariz.*	9,754,403,000
4.	Puerto Rico Electric Power Authority*	9,729,900,000
5.	South Carolina Public Service Authority*	8,911,937,000
6.	Memphis (Tenn.) Light, Gas and Water Division	8,794,201,000
7.	San Antonio (Texas) City Public Service Board	8,293,454,000
8.	Nashville (Tenn.) Electric Service*	8,129,092,000
9.	Nebraska Public Power District, Columbus, Neb.	8,065,930,000
10.	Sacramento (Cal.) Municipal Utility District	7,997,874,000
11.	Seattle (Wash.) City Light	7,816,929,000
12.	California Department of Water Resources	6,453,580,000
13.	Municipal Electric Authority of Georgia	6,022,637,000
14.	Omaha (Neb.) Public Power District	5,996,639,000
15.	Jacksonville (Fla.) Electric Authority*	5,927,102,000
16.	Lower Colorado River Authority, Austin, Texas	5,525,203,000
17.	Tacoma (Wash.) City Light	4,806,399,000
18.	Austin (Texas) Electric Utility*	4,772,595,000
19.	Douglas County Public Utility District, Wenatchee, Wash.	4,618,526,000
20.	Chattanooga (Tenn.) Electric Power Board	4,519,650,000

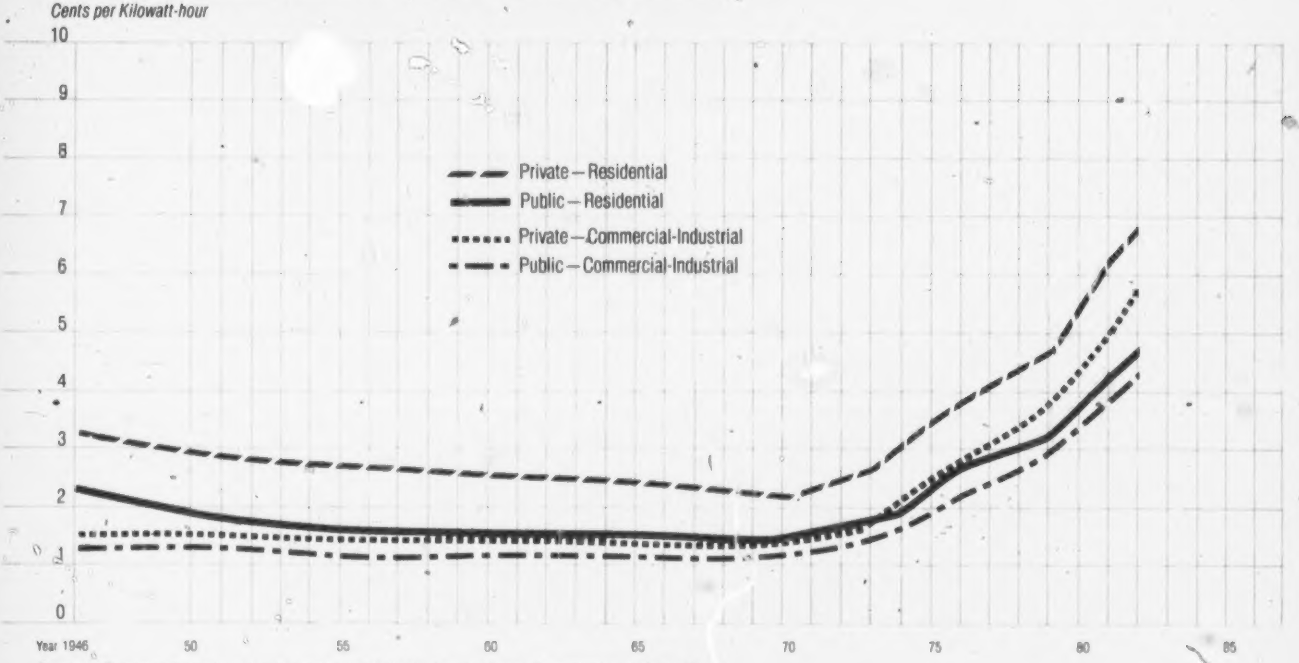
*Fiscal year not coincident with calendar year.

ELECTRIC REVENUES—1983

1.	New York Power Authority	$1,195,164,011
2.	Los Angeles (Cal.) Department of Water and Power	1,112,259,103
3.	Puerto Rico Electric Power Authority*	1,035,627,000
4.	Salt River Project, Phoenix, Ariz.*	536,061,525
5.	San Antonio (Texas) City Public Service Board	534,751,158
6.	Memphis (Tenn.) Light, Gas and Water Division	414,661,287
7.	Jacksonville (Fla.) Electric Authority*	387,162,000
8.	Nashville (Tenn.) Electric Service*	376,355,034
9.	South Carolina Public Service Authority*	320,992,679
10.	Austin (Texas) Electric Utility*	306,733,835
11.	Nebraska Public Power District, Columbus, Neb.	305,683,543
12.	Omaha (Neb.) Public Power District	269,205,084
13.	Sacramento (Cal.) Municipal Utility District	267,229,426
14.	Municipal Electric Authority of Georgia	263,786,240
15.	Lower Colorado River Authority, Austin, Texas	243,769,332
16.	Chattanooga (Tenn.) Electric Power Board	206,838,144
17.	Knoxville (Tenn.) Utilities Board	176,505,904
18.	Seattle (Wash.) City Light	164,609,827
19.	Orlando (Fla.) Utilities Commission*	150,571,794
20.	Snohomish County Public Utility District, Everett, Wash.	142,702,917

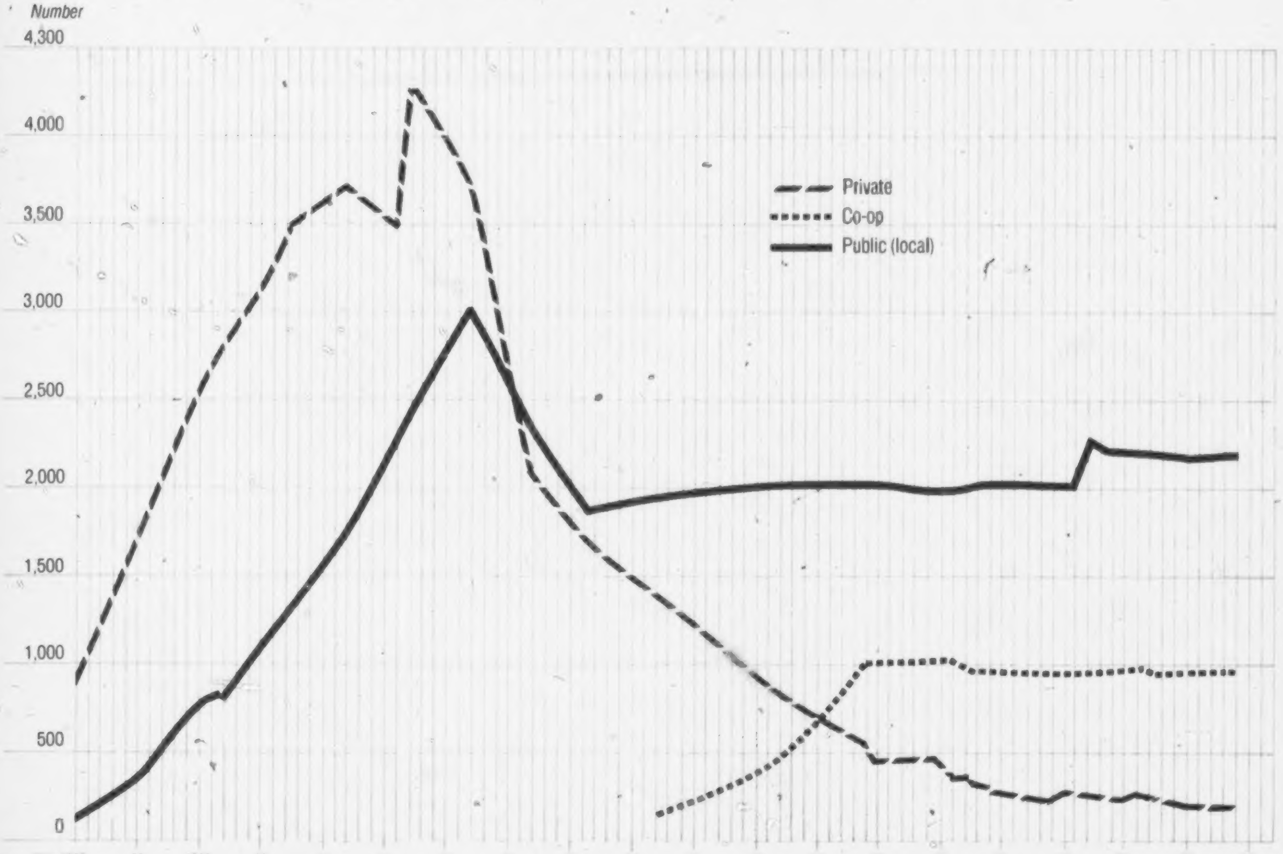
Sources: Annual reports and data reported to APPA.

1. Electricity's Average Cost per kWh 1946-1982 Public (local) and Private Power Systems



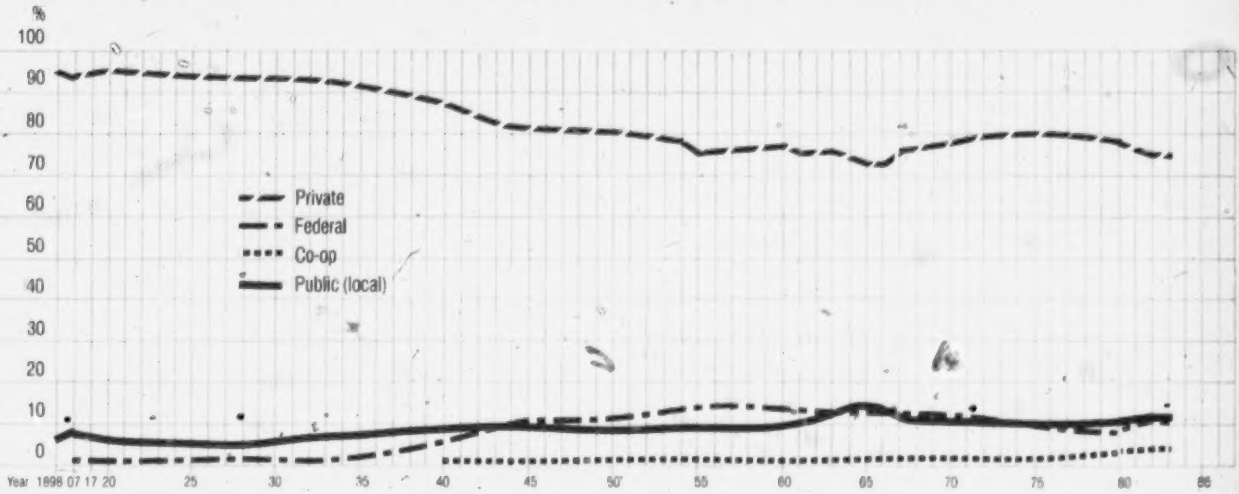
Sources: Energy Information Administration, 1976-1982; Federal Power Commission, 1946-1975.

2. Number of Electric Systems, by Ownership 1890-1984

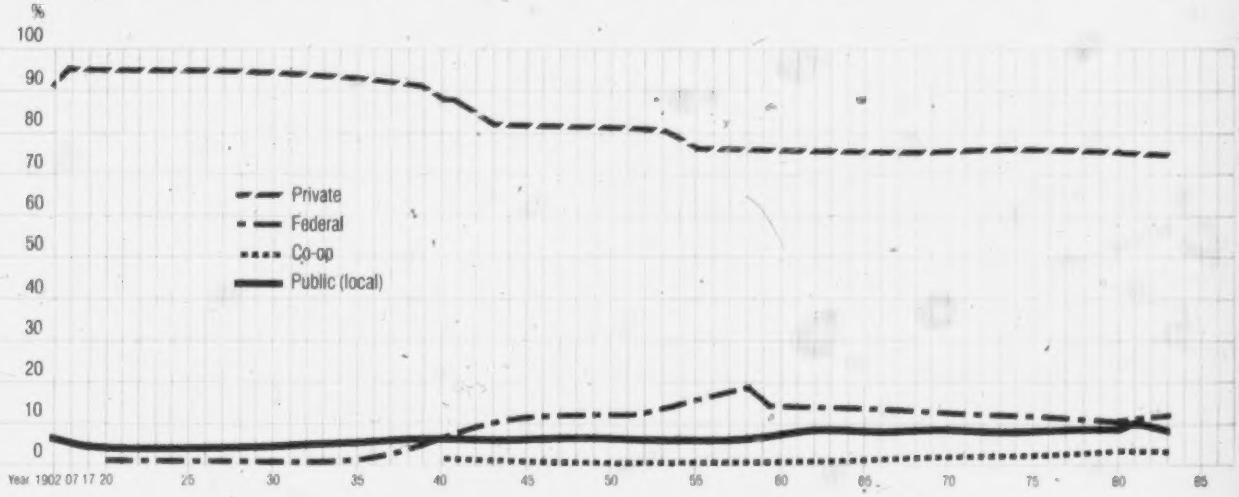


Note: Public systems include municipals, public utility districts and state power authorities, and exclude joint-action agencies and federal agencies.

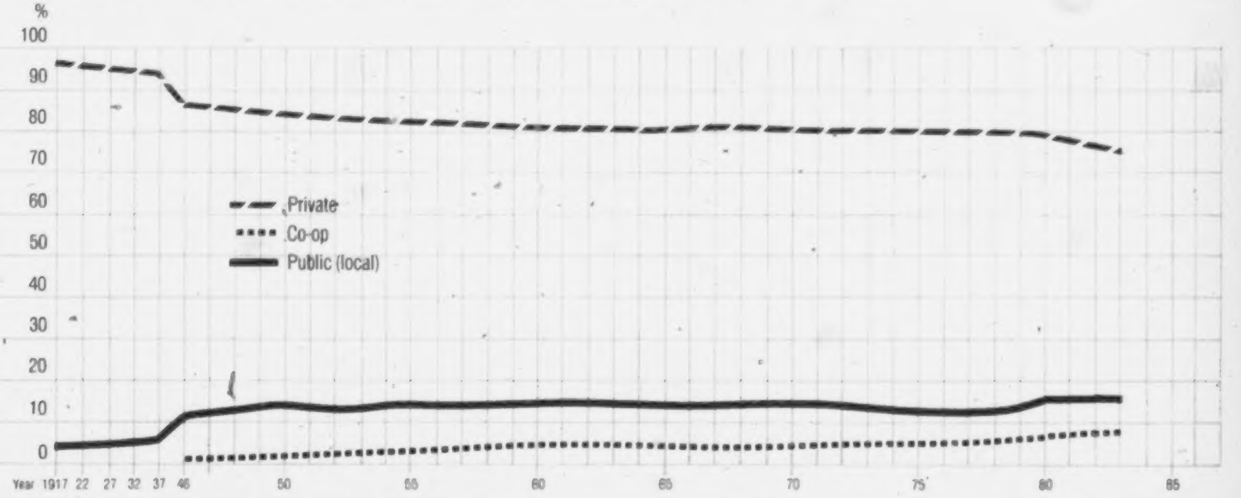
3. Installed Utility Generating Capacity, by Ownership 1898-1983



4. Kilowatt-hours Generated by Utilities, by Ownership 1902-1983

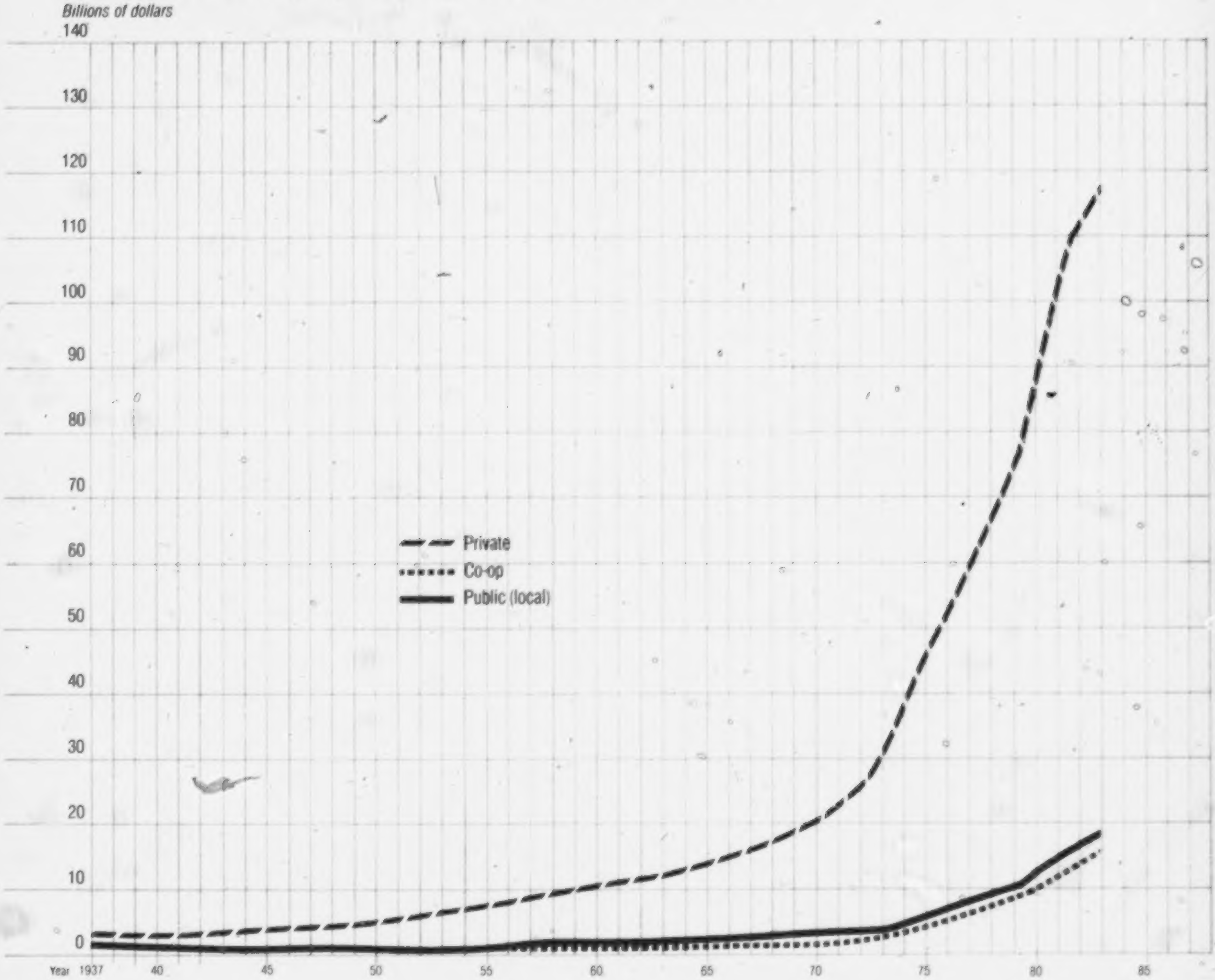


5. Kilowatt-hour Sales to Ultimate Customers 1917-1983

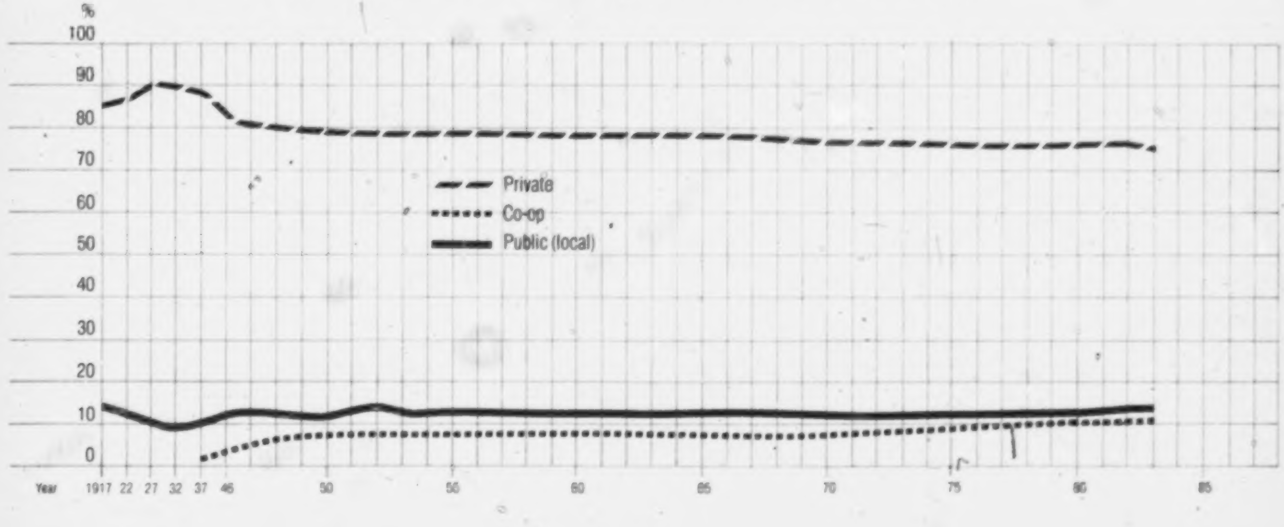


Notes: Sales for resale are included; sales from federal projects are excluded.

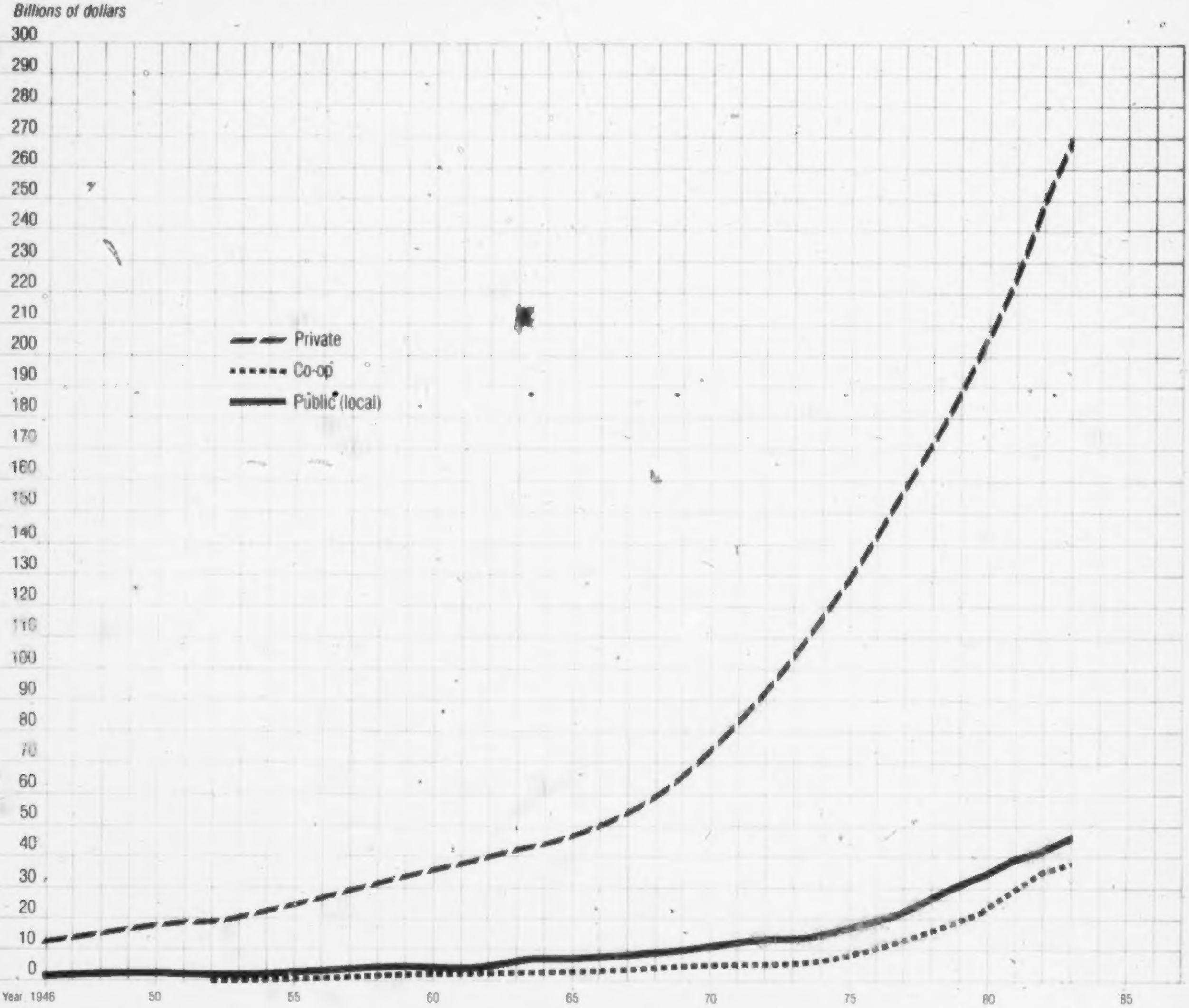
6. Electric Utility Operating Revenues 1937-1983



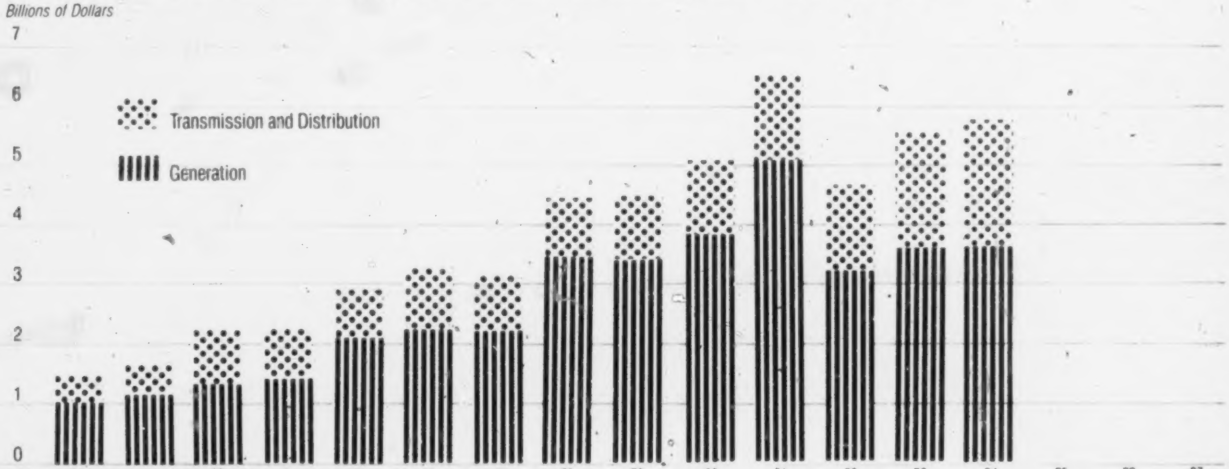
7. Number of Ultimate Electric Utility Customers 1917-1983



8. Net Electric Utility Plant 1946-1983

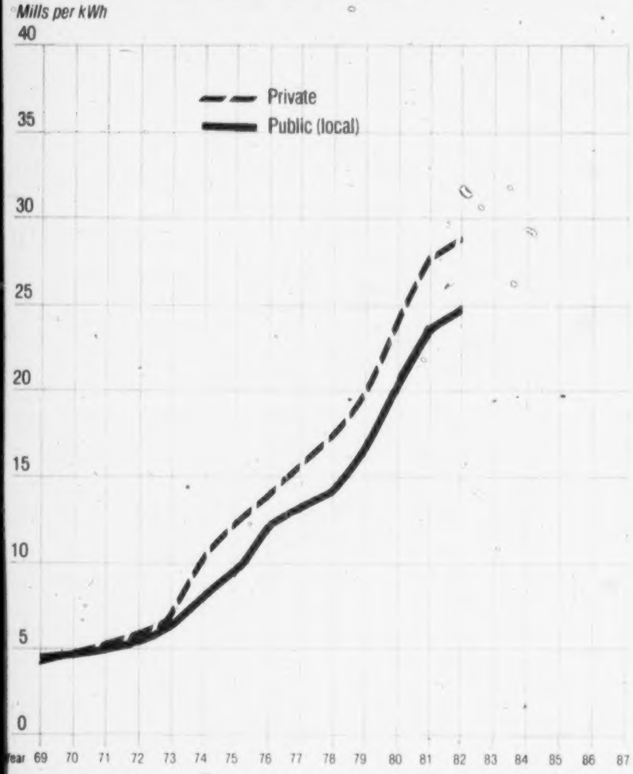


9. Annual Expenditures by Local Public Power Systems for Generation, Transmission and Distribution 1971-1984

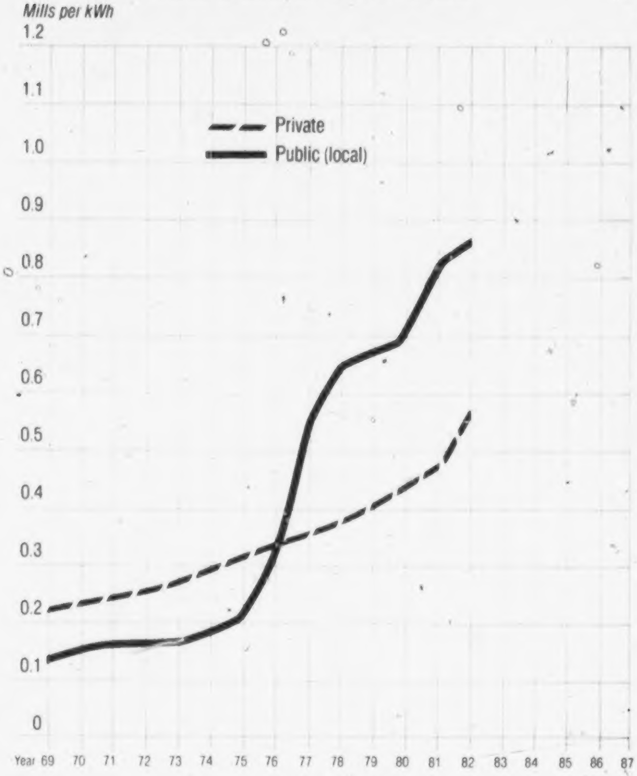


Source: Annual surveys by APPA.

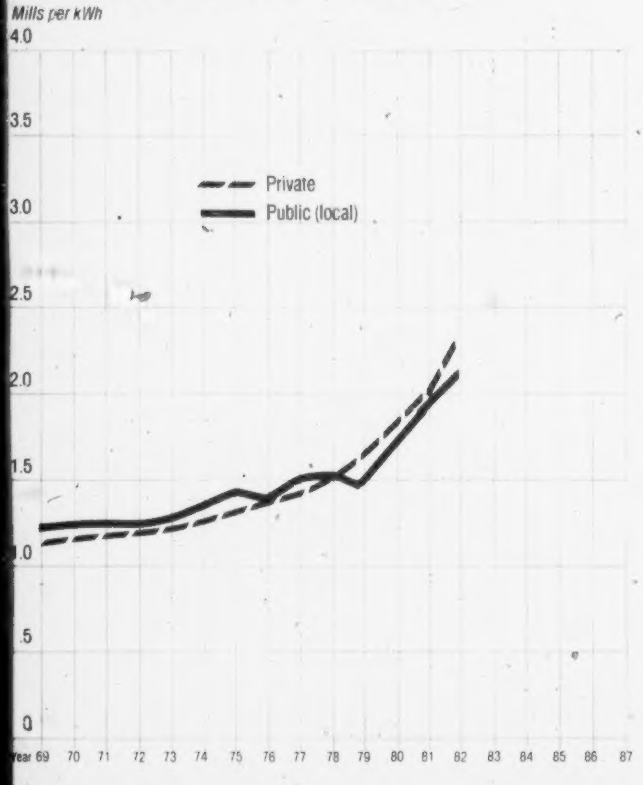
10. Cost of Production per kWh sold, public and private utilities 1969-1982



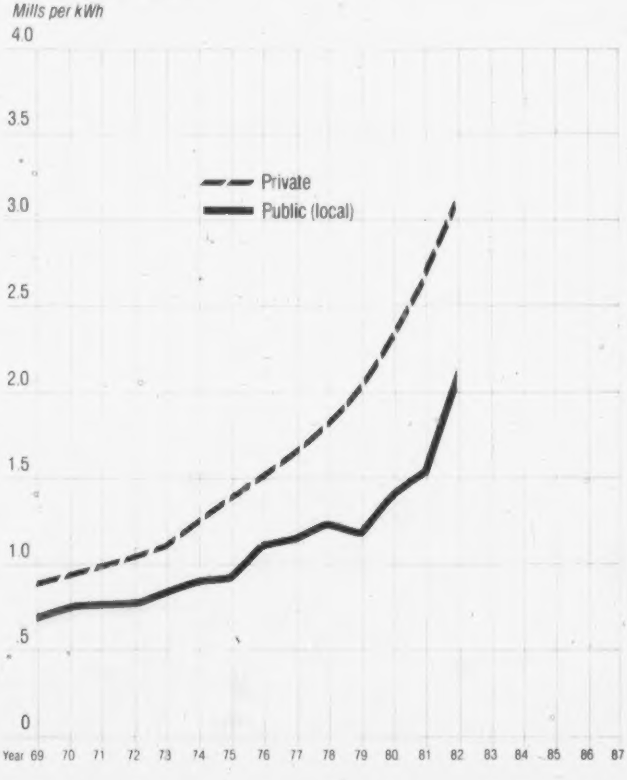
11. Cost of Transmission per kWh sold, public and private utilities 1969-1982



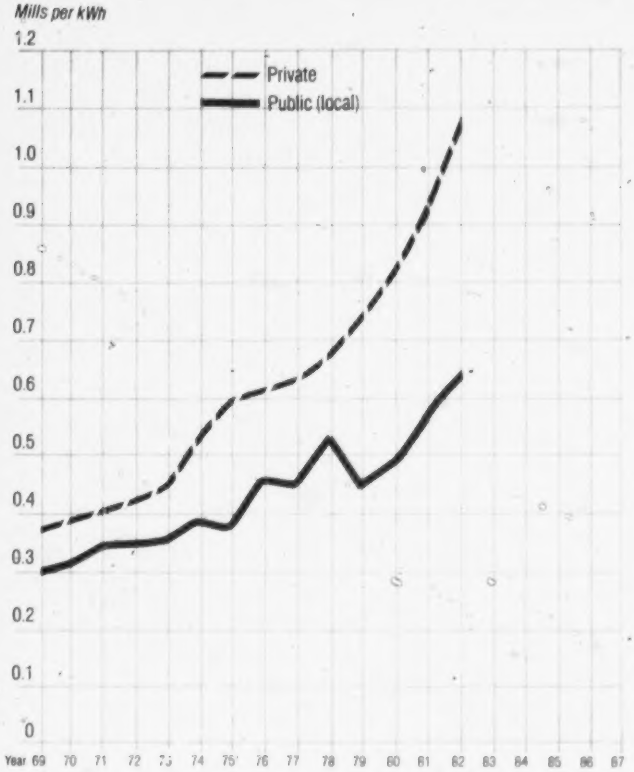
12. Distribution Expenses per kWh sold, public and private utilities 1969-1982



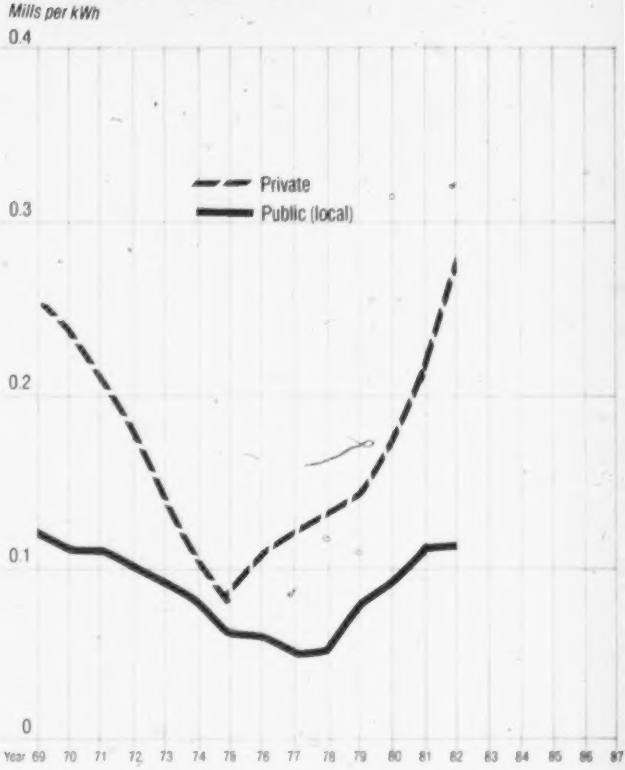
13. Administrative and General Expenses per kWh sold, public and private utilities 1969-1982



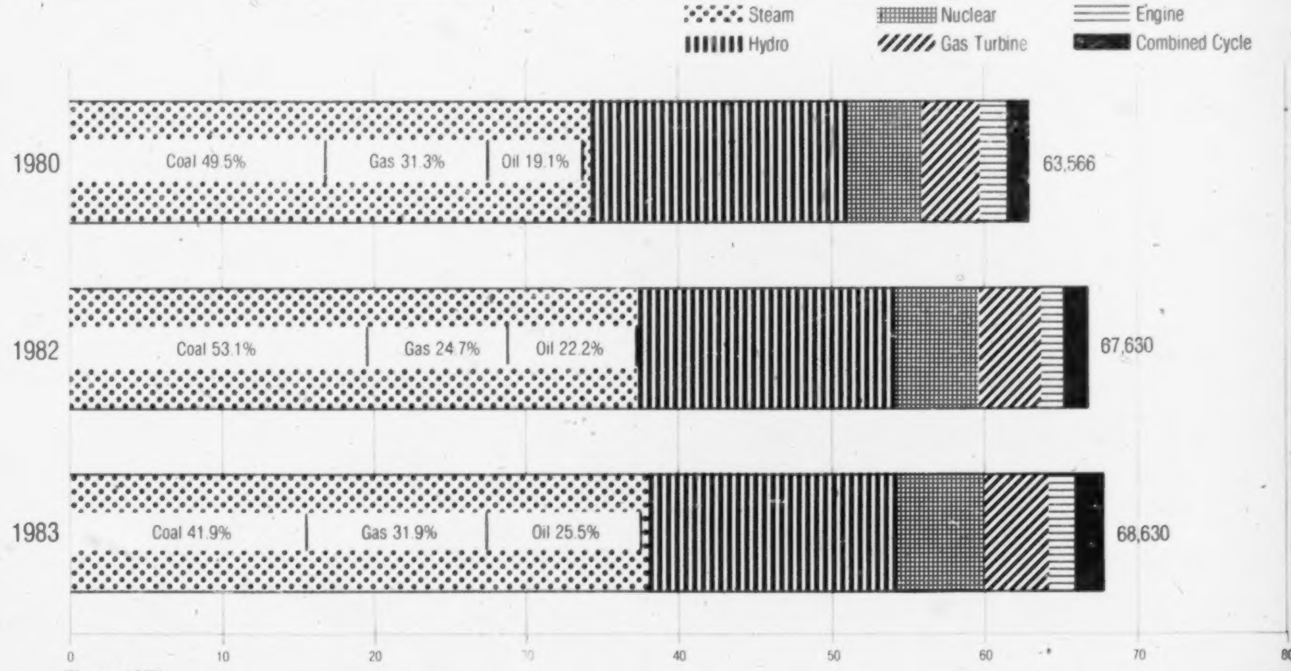
14. Accounting and Collections Expenses per kWh, Public and Private Utilities 1969-1982



15. Customer Service, Information and Sales Expenses per kWh, Public and Private Utilities 1969-1982



16. Installed Generating Capacity of Public Power Systems in the United States, by Type of Fuel,



Notes: Source—APPA surveys (none conducted in 1981). Totals represent 95 percent of total installed capacity of publicly owned systems in 1980, 94 percent in 1982 and 92 percent in 1983. Totals include generation by wood, waste and geothermal (0.4 percent in 1983).

APPA member

SAN ANTONIO City Pub. Service
Box 1771, 78296, — Address, zip code
512/227-3211. — Telephone
J.K. Spruce, gen. mgr.; 383,615 — Title
Number of electric meters served — met.; gen. 836,000 kW coal, 2,400,000 — Installed generating capacity
Kilowatt hours generated annually — kW gas; 8,912,205,900 kWh; pur. none; — Purchases (or sales)
Gross annual electric revenue — rev. $534,751,158. (1942)* — Year electric system established

Year in which data updated
(4 1984 3 1983 etc.)

ALABAMA

(Systems designated "TVA" are distributors of Tennessee Valley Authority power and purchase all of their power from TVA.)

ALBERTVILLE Util. Board, Box 130, 35950, 205/878-3761, Jim Stewart, gen. mgr.; 7,085 met.; pur. 341,099,493 kWh; rev. $14,900,466. (TVA) (1938)*

ALEXANDER CITY Elec. Dept., Russell Road, Box 552, 35010, 205/329-8427, Glenn Bolan, supt; 4,926 met; no gen.; pur. 80,240,500 kWh; rev. $3,828,338. (1930s)*

ANDALUSIA Elec. Dept. City Hall, 36420, 205/222-1332, 4,383 met.; no gen.; pur. 80,034,400 kWh; rev. $4,584,000. (1944)

ATHENS Elec. Dept., Box 1089, 35611, 205/233-2220, Alfred M. McCown, mgr.; 20,433 met.; pur. 414.9 million kWh; rev. $18,760,602 (TVA) (1935)

BESSEMER Utils., 1600 First Ave., N., Box 846, 35021, 205/424-2304, W. G. Pettey Jr., util. mgr.; 12,864 met.; pur. 276,224,278 kWh; rev. $12,021,641. (TVA) (1939)*

BRUNDIDGE Elec. Dept., Box 338, 36010, 205/735-2321, Jack V. Taylor, mgr.; 1,200 met.; no gen.; pur. 22 million kWh; rev. $1,200,000 (1950)

COURTLAND Elec. Dept., Box 160, 35618, 205/637-2707, Denzel Reding, supt.; 796 met., pur. 14.6 million kWh; rev. $695,783. (TVA) (1935)

CULLMAN Power Bd., Drawer 927, 35056, 205/734-2343, Jimmy Garrett, mgr.; 6,866 met.; sales 244,074,504 kWh; rev. $12,092,947 (TVA) (1947)*

DECATUR UTILITIES Box 2232, 35602, 205/350-6180, George Godwin Jr., gen. mgr.; 18,444 met.; pur. 983.8 million kWh; rev. $40,566,419. (TVA) (1939)

DOTHAN, City of, Box 2128, 126 N. St. Andrews St., 36302, 205/793-0301, Wylie H. Smith, supt.; 21,715 met.; no gen.; pur. 676,631,474 kWh; rev. $33,796,243. (1903)*

ELBA Water & Elec. Dept. 300 Buford St., 36323, 205/897-2261, Cleo Hawkins, supt., 1,600 met.; pur. 36,000,000 kWh; rev. $185,000.

EVERGREEN Mun. Light Dept., 36401, J.W. Weaver, supt.; 32 million kWh.

FAIRHOPE City of, Drawer 429, 36532, 205/928-2136, Aaron Norris, elec. supvr.; 3,813 met.; no gen.; pur. 69,219,505 kWh; rev. $3,874,996. (1923)*

FLORENCE, Elec. Dept., Box 877, 110 W. College St., 35631, 205/764-7271, J. H. McClanahan, mgr.; 34,338 met.; pur. 798,964,971 kWh; rev. $37,209,692. (TVA) (1936)*

FORT PAYNE Improvement Authority, Box 617, 35967, 205/845-0671, Richard C. Griffin, gen. mgr.; 6,434 met.; pur. 175.3 million kWh; rev. $8,242,048. (TVA) (1940)

GUNTERSVILLE Elec. Bd., 325 Gunter Ave., 35976, 205/582-5691, C. H. Gordon, mgr.; 4,728 met; pur. 160,034,007 kWh; rev. $7,347,507. (TVA) (1939)*

HARTFORD Water & Light Dept., 203 W. Main St., 36344, 205/588-2245; H. R. Lee, supt.; 1,150 met.; no gen.; pur. 22 million kWh.

HARTSELLE Elec. Bd., Box 847, 35640, 205/773-2588, Max King, mgr.; 3,888 met.; pur. 102.4 million kWh; rev. $4,721,579. (TVA) (1938)

HUNTSVILLE City of, Elec. Sys., 112 Spragins Street, Box 2048, 35801, 205/533-0300, E. E. Cobb, gen. mgr.; 79,997 met.; pur. 2,3 million kWh; rev. $102,770,482. (TVA) (1941)*

LAFAYETTE, City of, Mun. Light Plant, 50 Avenue A, Box 87, 36862, 205/864-9812, Clyde Eugene Lamb, elec. dept. supt.; 1,302 met.; no gen.; sales 17 million kWh; rev. $1,057,734. (1911)

LANETT, City of, Box 290, 36863, 205/644-2141, Ross Whitman, util. supt.; 3,296 met.; no gen.; pur. 50,337,277 kWh; rev. $301,459.

LUVERNE Electric Board, Box 249, 36039, 205/335-3741, R. P. Coggins Jr., supt.; 1,410 met.; no gen.; pur. 31,853,280 kWh; rev. $1,536,089.

MUSCLE SHOALS Elec. Bd., 1000 Avalon Ave., 35661, 205/383-6681, T. D. Lasater, mgr.; 4,246 met.; pur. 167,995,100 kWh; rev. $8,175,080. (TVA) (1933)*

OPELIKA Light & Power Dept., 1010 Ave. C, Box 390, 36801, 205/745-4681, B. J. Douglas, dir.; 8,871 met.; no gen.; sales 230,728,000 kWh; rev. $11,516,978. (1910)*

OPP, City of, Utils. Bd., Box 311, 36467, 205/493-4571, Charles McGowan, mgr.; 3,236 met.; no gen.; pur. 2,276,500 kWh; rev. $2,867,755. (1943)

PIEDMONT, City of, Elec. Sys., Box 112, 36272, Kenneth Jackson, supt.; 2,200 met.; no gen.; pur. 38 million kWh; rev. $1.3 million.

ROBERTSDALE, City of, Drawer CC, 36567, 205/947-2144, Paul N. Edhegard, supt. of utils.; 1,246 met.; no gen.; pur. 25,452,000 kWh; rev. $1,331,387. (1924).

RIVIERA UTILITIES, 413 E. Laurel Ave., Drawer 550, Foley 36536, 205/943-5001, H. Sewell St. John Jr., gen. mgr.; 15,322 met.; no gen.; pur. 274,574,320 kWh; rev. $15,152,236. (1941)*

RUSSELLVILLE Elec. Bd., Box 1148, 35653, 205/332-3850, Robert L. Stephenson, mgr.; 4,031 met.; no gen.; pur 105.2 million kWh; rev. $4,995,444. (TVA) (1938)

SCOTTSBORO Electric Power Bd., Box 399, 35768, 205/574-2680, L. E. Price, mgr.; 6,766 met.; pur. 278,302,080 kWh; rev. $12,644,030. (TVA) (1939)*

SHEFFIELD Power, Water & Gas Dept., Box 580, 35660, 205/383-5221, R. A. Azbell, gen. mgr.; 15,407 met.; pur. 410,642,069 kWh; rev. $19,616,961. (TVA) (1936)*

SYLACAUGA Utils. Bd., Box 207, 35150, 205/249-0372, William T. Scott, mgr.; 5,455 met.; no gen.; pur. 117,508,200 kWh, rev. $6,607,306. (1955)*

TARRANT CITY Elec. Dept., 1000 Ford Ave., Box 6536, 35217, 205/841-1721, Robert J. Burns; supt.; 2,544 met.; pur. 50 million kWh; rev. $2,434,014. (TVA) (1933)

TROY Elec. Dept., Box 549, 36081, 205/566-2130, G. H. Reeves, supt.; 4,575 met.; no gen.; pur. 140,864,000 kWh; rev. $6,160,619. (1895)

TUSCUMBIA, City of, Elec. Dept., Box 269, 35674-0269, 205/383-0321, Charles P. Ricks, mgr.; 3,675 met.; pur. 84,237,309 kWh; rev. $3,830,916. (TVA) (1937)*

TUSKEGEE, City of, 210 N. Main St., 36083, 205/727-6227, William Turner Jr., supt.; 6,763 met.; no gen.; pur. 1,444,239 kWh; rev. $4,162,190. (1954)

ALASKA

AKUTAN ELECTRIC UTILITY, Box 557, Dutch Harbor 99692, 907/698-2228, Jacob M. Stepetin, mayor, 40 met.; gen. 180 kW diesel, 86,000 kWh; pur. none; rev. (six months) $20,000. (1982)

ALASKA POWER AUTHORITY, 334 West 5th Ave., Anchorage, 99501, 907/276-0001, Larry Crawford, exec. dir.; one customer (wholesale); gen. 12,000 kW hydro, 31 million kWh; pur. none; $924,000. (1976)*

ANCHORAGE Mun. Light & Power, 1200 E. First Ave., 99501-1685, 907/279-7671, Thomas R. Stahr, gen. mgr.; 19,282 met.; gen. 237,000 kW, 33,300 kW waste heat comb. cycle; 81,300 kW gas combustion turbine, 122.4 kW gas (comb cycle); 604,631,000 kWh; pur. 84,193,507 kWh; rev. $34,373,282. (1932)*

CHIGNIK, City of, 99564, 907/749-2207, Arlene Kopun, clerk; 40 met. (1981)

FAIRBANKS Mun. Utils System, Box 2215, 99707, 907/456-1000, Virgil Gillespie, gen. mgr.; 6,109 met.; gen. 65,100 kW, 28,500 kW coal-fired steam, 23,100 kW oil, gas turbine, 5,250, kW oil (comb. cycle),

---

* denotes APPA membership

8,250 kW oil (combus. eng.), 159,671,000 kWh; pur. 8,579,200 kWh; rev. $10,475,744. (1949)

KETCHIKAN Pub. Utils., 334 Front St., 99901, 907/225-3111, ext. 330, Richard D. Newland, util. mgr.; 6,271 met.; gen. 29,620 kW, 18,320 kW oil, 11,300 kW hydro, 99,961,000 kWh; sales 85,726,743 kWh; rev. $7,487,409 (1935)

KING COVE, City of, Box 37, 99612, 907/497-2340, Cynthia Samuelson, city clerk; 125 met.; 600 kW eng.; pur. none; $136,000. (1950)

KLUKWAN INDIAN VILLAGE, Box 220, Haines 99827, 907/766-2805, Joe Hotch Jr., mgr.; 50 met.; diesel gen.; pur. none. (1968)

KOTLIK, City of, 99620, 907/899-4111, Benny Kamkoff, mgr.; 96 met. (Billing by United Utilities, Box 4-2730, Anchorage 99509.) (1982)

KUIGGLUUM KALLUGVIA, c/o Kwethluk Inc., Box 80, Kwethluk 99621, 907/757-6612, Frank D. Nicori, mgr.; 117 met; 210 kW oil eng.; sales 63,547 kWh; rev. $152,017. (1977)

MANOKOTAK, Village of, 99628, 907/842-5978, Moses Toyukak, mayor; 75 met. (1976)

METLAKATLA Power and Light, Box 346, 99926, 907/886-6661, Warren B. Dorland, gen. mgr.; 455 met.; gen. 6,000 kW, 3,000 kW hydro, 3,000 kW eng., 16,000,000 kWh; rev. $1,200,000. (1927)

NOME Joint Utils., Box 70, 99762, 907/443-5288, Dean Wolfe, mgr.; 1,157 met.; gen. 5,400 kW eng., 13,687 million kWh; pur. none; rev. $2,912,172. (1954)

NORTH SLOPE BOROUGH UTILITIES, Box 79, Barrow 99723, 907/852-2611, ext. 207; 740 met.; Jim Wilcox, acting util. mgr.; gen. 5,435 kW eng., 7 million kWh, pur. none; rev. $1,530,545. (1980) (NSB Utilities operates in seven villages: Anaktuvuk Pass, Atqasuk, Kaktovik, Nuiqsut, Point Hope, Point Lay and Wainwright.)

PETERSBURG Mun. Light and Power, Box 329, 99833, 907/772-4203, Howard Thacke, supt.; 1,415 met.; gen. 7,100 kW, 2,000 kW hydro, 5,100 kW eng., 22,265,977 kWh; pur. none; rev. $2,067,847. (1924)

SEWARD Elec. Util.;, Box 167, 99664, 907/224-3331, Paul Diener; 1,467 met.; gen. 5,500 kW oil-fired eng.; pur. 31,567,200 kWh; rev. $2,036,282. (1955)*

SITKA Mun. Utils., Lincoln St., Box 79, 99835, 907/747-6633, James D. Dwyer, supt.; 3,253 met.; gen. 29,000 kW, 7,000 kW eng., 22,000 kW hydro, 54 million kWh; pur. 610,600 kWh; rev. $4,322,800. (1941)

THORNE BAY, Box 110, 99950, Susan Chapin, city clerk, 120 met.; 850 kW diesel (1983)

UNALASKA Elec. Dept., Pouch 89, 99685, Nancy Gross, city mgr.; 200 met.; gen. 900 kW diesel, 1.7 million kWh; rev. $250,000.

WRANGELL Light & Power Dept., Box 531, 99929, 907/874-2381, Frank Fields, supt.; 1,100 met.; gen. 7,750 kW oil-fired eng., 11 million kWh; pur. 577,000 kWh; rev. $1,795,357.

ARIZONA

ARIZONA POWER AUTHORITY, Box 6694, Phoenix, 85005, 602/255-4263, Lester S. Ormsby, admn.; 17 met. (wholesale); no gen., pur. 784,365,726 kWh; rev. $7,424,065. (1944)*

CORTARO WATER USERS ASSN., 13864B N. Sandarro Rd., Marana, 85238, 602/682-3233; Robert Condit, mgr/secy., no gen.; pur. 35,572,222 kWh.

ELECTRICAL DISTRICT NO. 1, Pinal County, 711 E. Cottonwood Lane, Suite C, Casa Grande, 85222, 602/836-8201, M. S. Ray, mgr.; 67 met.; sales 48,220 kWh; rev. $1,259,785.

ELECTRICAL DISTRICT NO. 2, Pinal County, Box 548, Coolidge, 85228, 602/723-7741, William J. Metheny, gen. mgr.; 2,282 met.; no gen.; pur. 142,987,727 kWh; rev.$5,677,235 (1926)*

ELECTRICAL DISTRICT NO. 3, Pinal County, 711 E. Cottonwood Lane, Suite C, Casa Grande, 85222, 602/836-8201, W. A. Dunn, bd. chmn.; dir.; 489 met; no gen.; pur. 292,067,640 kWh; rev. $6,940,238. (1961)*

ELECTRICAL DISTRICT NO. 4, Box 605, Eloy, 85231, 602/466-7336, James Sweeney, mgr.; 400 met.; no gen.; pur. 128.8 million kWh; rev. $1,420,319. (1936)

ELECTRICAL DISTRICT NO. 5, Pinal County, Box 8, Red Rock, 85245, 602/682-3442, William D. Woehlecke, gen. mgr.; 265 met.; no gen.; pur. 86.4 million kWh; rev. $550,820.

ELECTRICAL DISTRICT NO. 6, Pinal County, Suite 720, 2845 E. Camelback Rd., Phoenix, 85016, Raymond D. Schnepf, chmn., 192 met.; no gen.; pur. 114,630,903 kWh; rev. $5,031,304. (1965)

HOLBROOK, 86025. (Town owns distribution system; leased to Arizona Public Service Co.)

MARICOPA WATER DISTRICT, Box 730, Peoria, 85345, H. S. Raymond, gen. mgr.; 83 met.; no gen.; pur. 39 million kWh; rev. $1,064,622.*

MESA, City of, Elec. Util., Box 1466, 85201-0904, 602/834-2265; Richard R. Williams, elec. util. mgr., 11,156 met.; no gen.; pur. 222,170,200 kWh; rev. $13,277,873. (1917)*

NAVAJO TRIBAL UTILITY AUTHORITY, Box 170, Fort Defiance, 86504, 602/729-5721, Malcolm P. Dalton, gen. mgr.; 19,148 met.; no gen.; pur. 486,739,690 kWh; rev. $19,837,327. (1966)

PAPAGO TRIBAL UTILITY AUTHORITY, Box 816, Sells, 85634, 602/383-2236, Jerrel D. Huey, gen. mgr.; 1,800 met.; no gen.; pur. 113, 637,000 kWh; rev. $3,691,000. (1970)

ROOSEVELT WATER CONSERVATION DISTRICT Box 168, Higley, 85236, 602/963-3414, Grant R. Ward, gen. mgr.; no gen.; pur. 36,317,282 kWh; (1924)

SAFFORD, City of, 717 Main St., Box 272, 85546, 602/428-2762, Max L. Norris, elec. serv. dir; 2,960 met.; sales 36,282,354 kWh; rev. $2,688,918. (1937)*

SALT RIVER PROJECT, Box 1980, Phoenix, 85001, 602/236-5900, A. J. Pfister, gen. mgr.; 350,710 met.; gen. 3,453,040 kW, 1,822,527 kW coal, 528,472 kW gas (steam turbine); 449,800 kW gas (combus. turbine); 414,000 gas (comb. cycle); 238,241 (hydro); 12,516,541,000 kWh; pur. 1,748,653,000 kWh; rev. $536,061,525. (1909)*

THATCHER Mun. Utils., Box 670, 85552, 602/428-2290, Herbert Winsor, mgr.; 692 met.; no gen.; pur. 9,392,919 kWh; rev. $615,921. (1946)*

WELLTON-MOHAWK IRRIGATION & DRAINAGE DISTRICT, Route 1, Box 19, Wellton, 85356, 602/785-3351, C. L. Gould, mgr.-secy.; 2,814 met.; gen. 1,200 kW oil (eng.); 10,000 kWh; pur. 131,770,350 kWh; rev. $2,385,102. (1942)*

WICKENBURG, Town of, Box 1269, 120 E. Apache, 85358, 602/684-5451, Coney Orosco, dir. of pub. works; 1,075 met.; no gen.; sales 13,251,498 kWh; rev. $941,423. (1947)

WILLIAMS, 86046. (Town owns distribution system; leased to Arizona Public Service Co.)

ARKANSAS

AUGUSTA City Light, Water & Gas Plant, 100 S. Fifth St., 72006, Ronnie Stracener, mgr.; 1,201 met.; gen. 2,838 kW eng., 2.8 million kWh; pur. 16 million kWh; rev. $407,527.

BENTON Utils., 222 W. South St., Box 607, 72015, 501/778-2546, E.L. Cody, gen. oper. supt.; 7,035 met.; gen. 500 kW oil (eng.); 8,500 kW dual-fuel; 860,700 kWh; pur. 107,310,000 kWh; rev. $6,300,948.(1918)

BENTONVILLE Light & Water System, City Hall, 115 W. Central, 72712, 501/273-9061, Wayne Holloway, elec. supt.; 3,800 met.; no gen.; pur. 75.8 million kWh; rev. $1,927,368. (1902)

CLARKSVILLE Light & Water Co., Box 99, 72830, 501/754-3148, Ottis R. Cude, mgr., 2,849 met.; no gen.; pur. 69,137,323 kWh; rev. $2,182,233. (1932)*

CONWAY Corp., 1319 Prairie St., Box 99, 72032, 501/329-5641, James H. Brewer, gen. mgr.; 9,028 met.; gen. 49,900 kW coal (steam turbine), 242,626,875 kWh; pur. 17,635,716 kWh; rev. $11,878,178. (1929)*

HOPE Water & Light Plant, Box 667, 71801, 501/777-6701, John D. Swift, utils. mgr.; 6,003 met.; no gen.; pur. 132,103,066 kWh; rev. $5,939,066. (1910)*

JONESBORO City Water & Light, 400 E. Monroe, 72401, 501/935-5581, James A. Reed, mgr.; 15,156 met.; gen. 125,000 kW coal (steam turbine), 163,157,938 kWh; pur. 286,774,062 kWh; rev. $16,651,748. (1906)*

NORTH LITTLE ROCK, Elec. Dept., 800 Main St., Box 159, 72115, 501/372-0100, Robert Hogan, gen. mgr.; 32,615 met; no gen.; pur. 606,205,467 kWh; rev. $33,550,230. (1903)*

OSCEOLA Mun. Light & Power, 316 W. Hale Ave., 72370, 501/563-5245, Jack L. Wilson, util. mgr.; 3,901 met.; gen. 5 910 kW oil-fired eng. stand-by; pur. 113,043,097 kWh.(1928)*

PARAGOULD City Light & Water, 303 W. Court St., 72450, 501/236-8571, John H. McDaniel, mgr.; 7,291 met.; no gen.; pur. 228,036,000 kWh; rev. $5,483,743. (1938)*

PARIS Mun. Light & Water Plant, Box 271, 72855, 501/963-2450, William McKelvy, mgr.; 1,650 met.; no gen.; pur. 28 million kWh; rev. $952,000.

PIGGOTT Municipal Light, Water & Sewer, 194 W. Court St., 72454, 501/598-2997, Denver Turner, mgr.; 1,997 met.; gen. 2,277 kW oil (eng.), 5,221 kW dual-fuel; pur. 25,874,624 kWh, $1,192,193. (1923)*

PRESCOTT Water & Light Plant, 118 W. Elm St., 71857, 501/887-2210, Larry Stockton, gen. mgr.; 1,850 met.; no gen.; pur. 1,787,533 kWh; rev. $2,433,893. (1921)

SILOAM SPRINGS, City of, Box 80, 72761, 501/524-5136, James R. Kirchoff, elec. supt.; 3,931 met.; no gen.; pur. 116,583,989 kWh; rev. $5,094,240. (1901)*

WEST MEMPHIS Util. Comm., 604 E. Cooper, Box 38, 72301, P. G. Para, mgr.; 10,350 met.; no gen.; pur. 237 million kWh.

CALIFORNIA

ALAMEDA Bureau of Elec., Drawer H, 94501, 415/522-7411, Jack Shepard, gen. mgr. and chief engr.; 27,000 met.; no gen.; pur. 357,806,787 kWh; rev. $18,159,536. (1887)*

ANAHEIM, City of, Pub. Utils. Dept., 200 S. Anaheim Blvd., Box 3222, 92805, 714/999-5100, Gordon W. Hoyt, util. dir.; 86,093 met.; no gen.; pur. 1,844,800,513 kWh; rev. $128,500,000. (1895)*

AZUSA, Light & Water, 777 N. Alameda Ave., 91702, 818/334-0215, Joseph F. Hsu, util. dir.; 11,887 met.; no. gen.; pur. 163,569,600 kWh; rev. $14,523,172. (1898)*

BANNING, City of, Pub. Utils. Dept., 176 E. Lincoln St., 92220, 714/849-4511, Eldridge Sinclair, dir. of pub. utils.; 5,959 met.; no gen.; pur. 70,700,000 kWh; rev. $5,819,811. (1923)*

BIGGS, City of, Box 307, 95917, 916/868-5493, W.T. West, dir. pub. wks.; 563 met.; no gen.; sales 8,693,000 kWh; rev. $245,585. (1903)*

BURBANK, City of, Pub. Service Dept., 164 W. Magnolia Blvd., Box 631, 91503, 818/953-9640, Ed Easter, actg. gen. mgr.; 44,035 met.; gen. 176,282 kW oil & gas (steam turbine), 85,382 kW gas (combus. turbine), 280,645,000 kWh; pur. 610,150,000 kWh; rev. $52,785,115. (1913)*

CALAVERAS COUNTY Water District, Box 846, San Andreas, 95246, 209/754-3543, Steve Felte, gen. mgr. (The district plans to generate hydropower for sale to public power systems.) (1947)*

CALIFORNIA DEPT. OF WATER RESOURCES, 1416 Ninth St., Sacramento, 95814, 916/445-6582, L.E. Swenson, Chief; 9 met.; no retail customers; gen. 169,500 kW coal (steam turbine); 1,215,000 kW hydro, 5,809,180,000 kWh; pur. 2,614,600,000 kWh; rev. $96,321,333. (1958)*

COLTON, City of, 650 N. La Cadena Dr., 92324, 714/370-5104, Gale A. Drews, elec. util. dir.; 8,877 met.; no gen.; pur. 120,877,200 kWh; rev. $9,912,317. (1897)*

EAST BAY Mun. Util. Dist., Box 24055, Oakland, 94623, 415/835-3000, J. B. Gilbert, gen. mgr.; 2 met. (output sold to Pacific Gas & Electric); gen. 18,750 hydro; 119,220,653 kWh; rev. $690,647. (1930)

GLENDALE Pub. Service Dept., 119 N. Glendale Ave., 91206, 818/956-2107, W.E. Cameron, dir. of pub. serv.; 68,131 met.; gen. 117,000 kW gas (steam turbine), 53,000 kW gas (combus. turbine), 98,000 kW gas (comb. cycle), 1,800 kW gas (eng.); 191,653,200 kWh; pur. 839,796,000 kWh; rev. $50,264,969. (1909)*

GRIDLEY, City of, 685 Kentucky St., 95948, 916/846-3631, David McEntyre, pub. serv. coord.; 1,659 met.; no gen.; pur. 20.5 million kWh; rev. $621,318. (1910)

HAYFORK VALLEY PUD, Box 1186, Hayfork, 96041, 916/628-4454, Bill Hinman, chair., bd. of dirs. (authorized in 1983, not yet operating).

HEALDSBURG, City of, Mun. Elec., 755 Westside Road, Box 578, 95448-0578, 707/433-9425, Dennis Mrkvicka, elec. util. dir.; 3,905 met.; no gen.; pur. 54,643,000 kWh; rev. $3,860,968 (1900)*

HETCH HETCHY WATER & POWER PROJECT, 693 Vermont St., San Francisco, 94107, 415/558-3038, Dean Coffey, gen. mgr.; 20 met.; no retail residential customers; gen. 292,500 kW hydro, 2,404,459,080 kWh; sales 2,286,357,170 kWh; rev. $77,886,983. (1925)*

IMPERIAL IRRIGATION DISTRICT, 333 E. Barioni Blvd., Imperial, 92251, 619/339-9200, Charles L. Shreves, gen. mgr.; 57,913 met.; gen. 191,100 dual fuel, (steam turbine), 47,450 kW oil (combus. turbine), 117,550 gas (combus.turbine); 13,276 kW oil (eng.) 77,380 kW hydro, 446,756 kW (other); 661,370,082 kWh; pur. 747,461,749 kWh; rev. $70,360,286. (1936)*

LODI, City of, Box 320, 95241, 209/3334-6762, David K. Curry, util. dir.; 16,838 met.; no gen.; pur. 206,881,153 kWh; rev. $14,047,085. (1910)*

LOMPOC, City of, 100 Civic Center Plaza, 93438, 805/736-1261, Gene L. Wahlers, city admin., 10,760 met.; no gen.; pur. 87,556,266 kWh; rev. $6,174,531. (1923)*

LOS ANGELES Dept. of Water and Power, 111 N. Hope St., Box 111, 90051, 213/481-4104, ext. 5651, Paul Lane, gen. mgr. and chief engr.; 1,238,752 met.; gen. 3,187,000 kW gas/oil, 1,076,000 kW coal (steam turbine), 76,000 kW gas/oil (comb. turbine), 1,954,000 kW hydro, 588,000 kW other; 23,765,916,000 kWh; pur. 8,166,613,000 kWh; rev. $1,112,259,102. (1925)*

MERCED IRRIGATION DISTRICT, Box 2288, Merced, 95344, 209/722-5761, Ray Anderson, sec. mgr.; wholesale only, gen. 92,700 kW hydro, 542.6 million kWh; pur. none; rev. $1,915,000. (1919)

MODESTO IRRIGATION DISTRICT, Box 4060, Modesto, 95352, 209/578-1212, H.L. (Les) Brooks, gen. mgr., 67,570 met.; gen. 99,900 kW oil (combus. turbine), 52,270 kW hydro, 439,091,103 kWh; pur. 978,447,136 kWh; rev. $57,301,000. (1923)*

NEVADA IRRIGATION DISTRICT, Box 1019, Grass Valley, Cal, 95945, 916/273-6185, Fred Bandy, mgr.; gen. 79,000 kW hydro, 569,134,741 kWh, rev. $5,068,340. (Output sold to Pacific Gas & Electric Co.). (1921)

OROVILLE WYANDOTTE IRRIGATION DISTRICT, Box 117, Forbestown, 95941, 916/534-1221, Steven C. Onken, power supt.; gen. 101,000 kW hydro, 500 million kWh. (Output sold to Pacific Gas & Electric Co.) (1963)

PALO ALTO, City of, 250 Hamilton Ave., 94301, 415/329-2656, Richard L. Young, dir. utils.; 25,947 met.; no gen.; pur. 984,080,496 kWh; rev. $24,903,520. (1900)*

PASADENA, City of, Water & Power Dept., 100 N. Garfield Ave., 91109, 213/577-4409, Karl A. Johnson, gen. mgr.; 52,281 met.; gen. 516,000,000 kWh; pur. 413.2 million kWh; rev. $45,817,062. (1906)*

PLACER COUNTY WATER AGENCY, Box 667, Foresthill, 95631, 916/885-6917, Elmer Pretzer, power systems mgr.; gen. 234,000 kW (hydro); 558,464,271 kWh; rev. $5,628,000; (Output sold to Pacific Gas & Electric.) (1966)

REDDING, City of, 760 Parkview Ave., 96001, 916/246-1151, Sam Lindley, dir. elec. dept.; 23,072 met.; no gen.; pur. 465,140,000 kWh; rev. $15,985,235. (1921)*

RIVERSIDE, City of, 3900 Main St., 92522, 714/787-7424, Fred Kray, pub. util. dir.; 68,808 met.; gen. 19,690 kW nuclear steam turbine, 21,621,870 kWh; pur. 1,074,236,300 kWh; rev. $87,291,224. (1911)*

ROSEVILLE, City of, 316 Vernon St., 95678, 916/783-9151, Quentin Mizer, elec. util. dir.; 11,471 met.; no gen.; pur. 204,149,650 kWh; rev. $5,881,812. (1912)*

SACRAMENTO Mun. Util. Dist., 6201 S St., Box 15830, 95852-1830, 916/732-5112, John J. Mattimoe, gen. mgr.; 351,203 met.; gen. 72,000 kW geothermal (steam), 913,000 kW nuclear (steam turbine), 649,000 kW hydro, 6,304,748,000 kWh; pur. 2,033,831,000 kWh; rev. $265,689,733. (1947)*

SAN FRANCISCO Pub. Utils. Comm., Rm. 287, City Hall, 94102, 415/558-4986, Rudy Nothenberg, gen. mgr.; (municipal and wholesale only); rev. $11,314,000.

SANTA CLARA, City of, Elec. Dept., 1500 Warburton Ave., 95050, 408/984-3044, James W. Beck, dir. elec. util., 40,502 met.; gen. 5,800 kW gas, (steam turbine), 34,244,000 kWh; pur. 1,815,940,568 kWh; rev. $67,839,502. (1896)*

SHASTA DAM AREA PUD, 1650 Stanton Dr., Box 777, Central Valley, 96019, 916/275-8827, Ron Young, gen. mgr.; 3,404 met.; no gen.; pur. 56,769,166 kWh; rev. $1,235,110. (1945)*

TRINITY COUNTY PUD, Box V, Weaverville 96093, 916/623-5536, Harry Bailey, gen. mgr.; 1,633 met.; no gen.; pur. 19,476,978 kWh; rev. $1,567,874. (1982) (acquired from CP National)*

TRUCKEE-DONNER PUD, Box 309, Truckee, 95734, 916/587-3896, Peter Holzmeister, gen. mgr.; 5,835 met.; no gen.; pur. 75,539,500 kWh; rev. $4,536,724. (1927)*

TUOLUMNE COUNTY Public Power Agency, 2 S. Green St., Sonora, 95370, 209/533-5515, Dominic Salluce, agency coordinator, 29 met.; no gen., pur. 13 million kWh; rev. $676,000 (distributes power only to local public entities) (1982)

TURLOCK IRRIGATION DISTRICT, Box 949, Turlock, 95381, 209/632-3861, Ernest Geddes, gen. mgr.; 45,935 met.; gen. 106,134 kW hydro, 978,860,353 kWh; pur. 72,086,477 kWh; rev. $34,439,078. (1922)*

UKIAH, City of, 203 S. School St., 95482, 707/462-2971, Maurice K. Roper, dir., elec. util.; 6,186 met.; no gen.; pur. 75,637,486 kWh; rev. $4,711,995. (1897)*

VERNON, Light & Power Dept., 4305 Santa Fe Ave., 90058 213/583-8811, Bruce V. Malkenhorst, exec. dir.; 2,083 met.; no gen.; pur. 1,222,631,000 kWh; rev. $61,596,196. (1933)*

YUBA COUNTY WATER AGENCY, Box 176, Dobbins, 95935, 916/692-1633, Daryl D. Sutton, mgr.; gen. 365,000 kW hydro, 2,761,014,000 kWh.; rev. $8,983,389. (Output sold to Pacific Gas & Electric Co.) (1966)

COLORADO

ASPEN, City of, 130 S. Galena, 81611, 303/925-2020, ext. 241, Thomas J. Maddalone, elec. dept. head; 2,100 met.; no gen.; pur. 39,235,200 kWh. (1956)*

BURLINGTON, City of, 480 15th St., 80807, 303/346-8652, Lester R. McLain, city mgr.; 2,034 met.; gen. 7,550 kW dual-fuel; pur. 21,054,121 kWh; rev. $1,286,478. (1920)

CENTER Mun. Light and Power Sys., 400 S.Worth, Box 400, 81125, 303/754-3497, Darrell T. Davis, supt.; 847 met.; 1,700 kW, 1,200 kW oil (eng.), 500 kW dual-fuel (eng.); pur. 9,865,188 kWh; rev. $386,608. (1941)*

COLORADO SPRINGS, Dept. of Utils., Box 1103, 80947, 303/636-5582, James D. Phillips, dir.; 107,908 met.; gen. 552,800 kW, 464,300 kW coal, 82,500 kW gas (steam turbine), 6,000 kW hydro; 2,719,657,000 kWh; pur. 561,075,000 kWh; rev. $103,437,435. (1925)*

DELTA Mun. Light & Power, 1133 Main St., Box 19, 81416, 303/874-7566, Richard Baker, power plt. supvr.; 1,979 met.; gen. 422 kW oil, 4,567 kW dual-fuel (eng.), 1,027,400 kWh; pur. 29,019,542 kWh; rev. $2,011,674. (1937)*

ESTES PARK, Town of, Light & Power Dept., Box 1200, 80517, 303/586-5486, Robert L. Dekker, dir.; 5,892 met.; no gen. pur. 64,050,086 kWh; rev. $3,981,474. (1945)*

FLEMING, Box 466, 80728, Lester Harms, mayor, 146 met.; no gen.; pur. 1,990,400 kWh.

FORT COLLINS Light & Power Utility, Box 580, 80520, 303/221-6700, Bill D. Carnahan, gen. mgr.; 27,874 met.; no gen.; pur. 529,720,123 kWh; rev. $28,739,215. (1935)*

FORT MORGAN, City of, 710 E. Railroad Ave., Box 100, 80701, 303/867-3001, Glen W. Calvert, city supt.; 5,275 met.; no gen.; pur. 190,160,796 kWh; rev. $2,078,311 (1906)*

FOUNTAIN, City of, 116 S. Main St., 80817, 303/382-5604, Frank Bustamento, supt.; 7,356 met.; no gen.; pur. 75,630,007 kWh; rev. $2,936,506.

FREDERICK, Town of, Box 435, 80530, 303/833-2388, Edward J. Tagliente, mayor; 300 met.; no gen.; pur. 3,992,300 kWh; rev. $137,356.

GLENWOOD SPRINGS Elec. System, 302 W. 8th St.,81601, 303/945-6672, 945-2575, Michael Copp, city mgr.; 4,355 met.; no gen.; pur. 61,944,800 kWh; rev. $3,923,117. (1953)*

GRANADA, Town of, 109 E. Goff St., Box 258, 81041, Thelma Schibblehut, town clerk; 200 met.; 303/734-5411.

GUNNISON, City of, Box 239, 81230, 303/641-2443, Dale Howard, city mgr.; 2,698 met.; no gen.; pur. 41,853,998 kWh; rev. $1,283,190. (1880s)*

HAXTUN Mun. Light & Power Dept., 145 S. Colorado Ave., Box 205, 80731, 303/774-6104, R. D. Orcutt, supt.; 585 met.; no gen.; pur. 100,193 kWh; rev. $216,000. (1918)

HOLLY, Town of, Box 458, 81047, 303/537-6622, Dorothy Cook, town clerk; 671 met.; no gen.; pur. 6,366,720 kWh; rev. $352,979. (1949)

HOLYOKE, City of, 207 W. Denver St., 80734, 303/854-2266, Les Lutze, city supt.; 1,074 met.; no gen.; pur. 17,496,000 kWh; rev. $464,689.

JULESBURG, Town of, 222 E. First St., 80737, 303/474-3344, Melvin Mikelson, town mgr.; 827 met.; gen. 3,060 kW oil (eng.), pur. 9,386,324 kWh; rev. $633,694.

LA JUNTA City of, Mun. Util., Box 630, 81050, 303/384-2546, Carme A. Sarlo, city mgr.; 3,689 met.; gen. 19,253 dual-fuel eng., 1,429,260 kWh; pur. 56,659,200 kWh; rev. $3,825,140. (1939)*

LAMAR, Utils. Bd., 100 N. Second St., 81052, 303/336-7456, Kevin G. Wailes, supt.; 5,409 met.; gen. 34,000 kW gas (steam turbine), 2,000 kW oil (eng.), 92,978,000 kWh; pur. 33,776,000 kWh; rev. $6,200,933. (1919)*

LAS ANIMAS Mun. Light & Power, Box 271, 81054, 303/456-1621, Dwain Parrack, supt.; 1,931 met.; gen. 620 kW oil, 5,000 kW dual-fuel (eng.), 35,100 kWh; pur. 21,323,000 kWh; rev. $1,010,962. (1941)*

LONGMONT, City of, Elec. Util., Box 518, Lyons, 80540, 303/776-6050, X359, David C. Plumb, deputy city mgr.; 19,382 met.; gen. 600 kW hydro, 4,080,427 kWh; sales 15,710,936 kWh; rev. $281,319,739. (1911)*

LOVELAND, City of Elec. Dept., 446 N. Garfield, 80537, 303/667-6130, Dieter Wirtzfeld, dir.; 14,181 met.; no gen.; pur. 385,942,000 kWh; rev. $11,448,490. (1925)*

LYONS, Town of, 432 5th Ave., 80540, 303/823-6622, Ralph Leum, pub. wks. dir.; 500 met.; no gen.; pur. 170,449 kWh; rev. $292,215.

OAK CREEK, Town of, Box 128, 80467, 303/736-2422, John Yurich, town mgr.; 507 met.; no gen.; rev. $155,200.

SPRINGFIELD Mun. Util., Box 4, 81073, 303/523-4528, Tommy Lithe, supt.; 950 met.; gen. 2,495 kW dual-fuel eng.; pur. 8,000,000 kWh. (1949)

TRINIDAD Mun. Power & Light, 135 N. Animas, 81082, 303/846-9843; David Brunelli, supt.; 4,644 met.; gen. 3,750 kW coal (steam turbine), 3,750 gas (steam turbine); 3,750 dual-fuel (eng.); 9,620,000 kWh; pur. 30,883,238 kWh; rev. $2,725,640. (1948)*

WALSENBURG Utils., 525 S. Albert, 81089, 303/738-1240, Richard Abila, supt.; 2,079 met.; no gen.; pur. 16,725,480 kWh; rev. 1,230,341. (1952)

WRAY City of, 245 W. 4th, Box 35, 80758, 303/332-4431, Robert Snedeker, city mgr.; 1,353 met.; no gen.; pur. 16,729,113 kWh; rev. $702,719. (1903)*

YUMA City of, Light & Power, 221 S. Main St., 80759, 303/848-3878 or 2147, Paul Metcalf, city mgr.; 1,350 met.; gen. (standby) 1,350 kW oil-fired eng.; pur. 13,803,262 kWh; rev. $730,658. (1928)

CONNECTICUT

GROTON City of, Dept. of Util., 295 Meridian St., Box 820, 06340, 203/445-8571, William W. Clinton, dir. of utils.; 12,151 met.; no gen.; pur. 535,334,700 kWh; rev. $32,261,878. (1904)*

JEWETT CITY Elec. Light Plant, 29 Park Square, 06351, 203/376-2955, 376-2877, Joseph M. Dudek, supt.; 1,887 met.; no gen.; pur. 14,861,224 kWh; rev. $1,175,984. (1893)*

NORWALK THIRD TAXING DISTRICT, Elec. Dept., 2 Second St., Box 451, E. Norwalk, 06856, 203/866-9271, William J. Lyons Jr., mgr.; 3,225 met.; no gen.; pur. 51,318,010 kWh; rev. $4,365,022. (1913)*

NORWICH City of, Dept. of Pub. Util., 34 Courthouse Sq., 06360, 203/887-2555, Richard E. DesRoches, gen. mgr.; 16,415 met.; gen. 16,750 kW oil (combus. turbine), 3,000 kW hydro, 14,176,780 kWh; pur. 248,355,020 kWh; rev. $20,380,232. (1904)*

SOUTH NORWALK Elec. Works, State St., Box 400, 06856, 203/866-3366, Larry Rossi, gen. mgr.; 5,163 met.; gen. 15,280 kW oil, eng., 417,800 kWh; pur. 62,967,457 kWh; rev. $5,815,812. (1892)*

WALLINGFORD Elec. Div., 100 John St., Box 190, 06492, 203/265-1593, Raymond F. Smith, dir. of utils.; 17,464 met.; gen. 22,500 kW oil, (steam turbine), 250,000 kWh; pur. 393,030,000 kWh; rev. $35,335,213. (1899)*

DELAWARE

CLAYTON Mun. Light & Power, 314 Main St., 19938, James H. Carson, Jr., council pres., 590 met.; pur. 4,570,000 kWh; rev. $217,272.

DOVER City of, Elec. Dept., Box 475, 19901, 302/736-7070, Thomas L. Darte, elec. dir.; 12,969 met.; gen.

DELAWARE
(continued)

140,000 kW oil (steam turbine), 500 kW oil (eng.), 552,513,900 kWh; pur. 101,016,000 kWh; rev. $36,764,843. (1902)*

LEWES Bd. of Pub. Works, Box 518, 19958, 302/645-6228, -6229, Ronald Donovan, gen. mgr.; 2,799 met.; pur. 37,020,000 kWh.; rev. $2,464,588. (1901)

MIDDLETOWN Town of, Town Hall, Box 227, 19709, 302/378-2711, Arthur Pennewill, councilman; 500 met.; no gen.; pur. 16,300,000 kWh; rev. $1,600,000.

MILFORD, City of, 201 S. Walnut St., 19963, 302/422-6616, Ralph A. Clark, city mgr.; 3,500 met.; no gen.; rev. $5,100,000. (1918)

NEWARK, City of, 220 Elkton Rd., 19711, 302/366-7050, Dennis G. Smith; 7,610 met.; no gen.; pur. 187,980,553 kWh; rev. $6,816,604. (prior to 1914)*

NEW CASTLE Bd. of Water & Light Comm., 216 Chestnut St., Box 208, 19720, 302/328-2325, Edward J. Murphy, secy.-mgr.; 1,935 met., no gen.; sales 14,695,966 kWh; rev. $1,555,204. (1921)*

SEAFORD City of Elec. Dept., 302 E. King St. Box 671, 19973, 302/629-9173, Dolores F. Jones, city mgr.; 2,531 met.; gen. 7,302 kW diesel; pur. 49,860,000 kWh; rev. $3,561,337.

SMYRNA, Town of, Elec. Util., Box 307, 19977, 302/653-9231, Cliff LaSana, distr. supt.; 2,049 met.; no gen.; pur. 33,332,111 kWh; rev. $2,711,158. (1893)

FLORIDA

ALACHUA, City of, Box 9, 32615, 904/462-1231, Richard Schlaf, city mgr.; 1,482 met.; no gen.; pur. 26,506,249 kWh; rev. $1.568,013. (1960)

BARTOW, City of, 250 N. Central Ave., 33830, 813/533-0911, James R. O'Connor, city mgr.; 8,320 met.; no gen.; pur. 180,479,000 kWh; rev. $11,515,304. (1903)

BLOUNTSTOWN Mun. Elec. Dept., 125 W. Central Ave., 32424, 904/674-5488, Ed Stacey, elec. dept. supvr.; 1,255 met.; no gen.; pur. 19 million kWh; rev. $1.5 million. (1903)

BUSHNELL Util. Dept., Box 115, 33513, 904/793-2591, Lelman Shaw, supt.; 672 met.; rev. $848,301. (1921)

CHATTAHOOCHEE, City of, City Hall, Box 188, 32324, 904/663-4046, Clyde Hopkins, supt.; 1,327 met.; no gen.; pur. 18 million kWh: rev. $1,995,064. (1915)*

CLEWISTON, City of, Box 698, 33440, 813/983-9191, C. F. Blair, city mgr.; 3,392 met.; no gen.; pur. 70,885,897 kWh; rev. $4,775,219. (1942)*

FORT MEADE, City of, Box 856, 33841, 813/285-8191, Robert Bullard, city mgr.; 2,335 met.; no gen.; pur. 31,886,000 kWh, rev. $2,084,856. (est. 1920s)

FORT PIERCE Utils. Authority, Box 3191, 33450, 305/464-5600, Ewell E. Menge, dir. util.; 21,156 met.; gen. 105 kW oil and gas (steam turbine), 5.5 kW oil (eng.); 201,369,000 kWh; pur. 275,969,000 kWh; rev. $26,577,141. (1911)*

GAINESVILLE REGIONAL UTILITIES, 200 E. University Ave., Box 490, Gainesville, 32602, 904/374-2811, Richard L. Hester, Interim city mgr.; 46,517 met.; gen. 168,750 kW oil, 250,750 kW coal, 12,113 kW nuclear (steam turbine), 97,650 kW oil (combus. turbine), 2,142,925,800 kWh; pur. 12,180,000 kWh; rev. $55,035,580. (1912)*

GREEN COVE SPRINGS, City of, 229 Walnut St., 32043, 904/284-5621; William Vermilling, city mgr.; 2,036 met.; no gen.; pur. 53,381,595 kWh; rev. $3,954,840. (1907)

HAVANA, Town of, Power & Light, 711 N. Main St., Box 1068, 32333, 904/539-6493, C. G. Trippe, city mgr.; 1,128 met.; no gen.; pur. 13,185,600 kWh; rev. $918,081. (1926)

HOMESTEAD, City of, Power Plant, 790 N. Homestead Blvd., 33030, 305/247-1801, Warren Hinchee, dir. of utils.; 12,635 met.; gen. 20,180 kW oil, 42,300 kW dual-fuel (eng.), 138,868,700 kWh; pur. 99,732,000 kWh; rev. $14,665,274. (1926)*

JACKSONVILLE Elec. Authority, 233 W. Duval St., 32202, 904/633-4616, Royce Lyles, mg. dir.; 236,580 met.; gen. 1,340,000 kW oil,213,000 kW gas (steam turbine), 423,000 kW oil (combus. turbine), 1,786,326,000 kWh; pur. 4,534,230,108 kWh; rev. $387,162,000. (1895)*

JACKSONVILLE BEACH, City of, 11 N. Third St., 32250, 904/249-2381, Keith Roberts, dir. elec. util.; 15,463 met.; no gen.; pur. 274,441,920 kWh; rev. $12,349,742. (1908)*

KEY WEST, Utility Bd. of the City, 1001 James St., 33040, 305/294-5272, Robert R. Padron, mgr.; 18,163 met.; gen. 122,500 kW; 87.0 kW oil (steam turbine); 22.0 kW diesel (combus. turbine); 13.5 diesel (internal combus. eng.); 343,098,184 kWh; pur. none; rev. $36,982,642. (1943)*

KISSIMMEE, Utils., 101 N. Church St., Box 1608, 32742-1608, 305/847-2821, James C. Welsh, util. dir.; 16,985 met.; gen. 52,850 kW, 20,350 kW dual-fuel (eng.), 27,500 kW gas turbine, 5,000 kW oil (eng.); 9,021 kW nuclear; 87,547,000 kWh; pur. 232,752,000 kWh; rev. $24,475,609. (1900)*

LAKELAND Elec. & Water Utils., 1000 E. Parker St., 33801, 813/687-3636, R. G. Siegel, mg. dir., 68,900 met.; gen. 587,750 kW, 325,000 kW oil, 334,000 kW coal (steam turbine), 56,850 kW oil (combus. turbine), 5,500 kW oil (eng.); 1,791,000,000 kWh; pur. 34,011,000 kWh; rev. $113,136,484. (1904)*

LAKE WORTH, City of, Utilities, 114 College St., 33460, 305/586-1666, J. Claude L'Engle, utils. dir., 22,932 met.; gen. 74,080 kW steam, 30,800 kW oil (combus. turbine), 30,000 kW comb. cycle, 10,000 kW eng.; 274,425,200 kWh; pur. 100,164,000 kWh; rev. $23,205,500. (1916)

LEESBURG, City of, Elec. Dept., 2010 W. Griffin Rd., 32748, 904/787-4252, J. M. Tardugno Jr., elec. supt.; 13,145 met.; gen. 6,700 kW nuclear (steam turbine), 59,546,900 kWh; pur. 195,535,120 kWh; rev. $18,187,957. (1926)*

MOORE HAVEN, City of, Box 399, 33471, 813/946-0711, Carmen Whitney, city clk.; 9,510 met.; no gen.; sales 8,966,320 kWh; rev. $948,642. (1924)

MOUNT DORA, City of, Box 176, 32757, 904/383-4221, Arthur Womble, supt. of utils.; 3,953 met.; no gen.; pur. 50,822,000 kWh; rev. $3,780,475. (1922)

NEWBERRY Bd. of Public Works, Box 368, 32669, 904/472-2161, John W. Caldwell, util. dir.; 680 met.; no gen.; rev. $805,413. (1910)

NEW SMYRNA BEACH Util. Comm., Box 519, 32069, 904/427-1361, R. Ronald Hagen, util. dir.; 11,819 met.; gen. 31,756 kW, 7,500 kW gas, 4,991 kW nuclear, 14,040 kW oil-fired, 5,225 kW dual-fuel, 35,826,000 kWh; pur. 127,602,000 kWh; rev. $11,926,851 (1922).*

OCALA Elec. Utils., Box 1290, 32678, 904/351-6600, Dean G. Shaw, dir. of elec. util.; 30,133 met.; gen. 11,146 kW nuclear (steam turbine), 97,371,456 kWh; pur. 580,517,440 kWh; rev. $45,472,338. (1893)*

ORLANDO Utils. Comm. Box 3193, 500 S. Orange Ave.,32802, 305/423-9100, Harry C. Luff, gen. mgr.; 115,928 met.; gen. 850,370 kW; 145,548 kW coal, 638,800 kW gas (steam turbine), 66,022 kW nuclear steam turbine, 2,848,629,000 kWh; pur. 98,297,000 kWh; rev. $150,571,794. (1923)

QUINCY, City of, Drawer 941, 32351, 904/627-7681, Otto Roberts, dir. of utils.; 4,105 met.; no gen.; pur. 107,692,000 kWh; rev. $5,222,736. (1904)

ST. CLOUD City of, 1300 Ninth St., 32769, 305/892-2161, Ivan S. Stupal, dir. elec. utils.; 8,768 met.; gen. 29,250 kW dual-fuel (eng.), 56,500,300 kWh; pur. 64,258,000 kWh.(1916)*

SEBRING Utils. Comm.,321 Mango St., Box 971, 33870, 813/385-0191, James E. Moothart, acting gen. mgr., 9,106 met.; gen. 71,141 kW, 12,650 kW gas, 58,491 kW oil (eng), 96,173,380 kWh; pur. 40,655,000 kWh; rev. $9,251,552. (1923)*

STARKE Light & Water Plant, 209 N. Thompson St., Drawer C, 32091, 904/964-5027, Merrell Dees, utils. dir.; 2,157 met.; pur. none; rev. $542,703. (1890)

TALLAHASSEE, City of, Elec. Dept., 300 S. Adams St., 32301, 904/599-8511, B. W. Wait III; 60,802 met.; gen. 549,442 kW, 464,250 kW gas & oil, 73,320 kW gas turbine, 11,872 kW nuclear, 1,139,215,303 kWh; pur. 319,711,000 kWh; rev. $90,043,153. (1902)*

VERO BEACH, City of, Box 1389, 32961, 305/567-5151, Ext. 247, John V. Little, city mgr./util. dir.; 20,119 met.; gen. 130,378 kW, 117,000 kW oil or gas (steam turbine), 13,378 kW oil (eng.), 314,013,000 kWh; pur. 195,676,000 kWh; rev. $28,446,805. (1919)

WAUCHULA Mun. Light & Water Dept., Box 818, 33873, 813/773-3131, Thomas M. Priest, supt., pub. works; 2,281 met.; gen. 7.2 thousand kW oil-fired eng., 2,368,700 kWh; pur. 44,249,000 kWh; rev. $2,713,427. (1924)*

WILLISTON Mun. Elec. Dept., Box 160, 32696, 904/528-3060, Donald J. Tanner, util. dir.; 1,200 met.; no gen.; rev. $995,000.

GEORGIA

ACWORTH City of, 4375 Sen, Russell Sq., 30101, 404/974-3112, Joseph Griffis, supt.; 2,300 met.; no gen.; rev. $1,368,000.

ADEL, City of, Elec. Dept.,Box 658, 31620, 912/896-2821, S.H. Sutton, mgr.; 1,800 met.; no gen.; pur. 62,085,500 kWh.*

ALBANY Water, Gas & Light Comm., Box 1788, 31707, 912/883-8330, U. W. Rodemann, gen. mgr.; 32,441 met.; no gen.; pur. 776,572,582 kWh; rev. $34,320,914. (1900)*

BARNSVILLE, City of, Elec. Dept., 109 Forsyth St., 30204, 404/358-0181, Ralph S. Barron, city supt.; 2,175 met.; no gen.; pur. 38,912,170 kWh; rev. $2,074,434. (1910)*

BLAKELY, City of, Box 350, 31723, 912/723-3677, Billy Fleming, Mayor; 2,411 met.; no gen.; pur. 53,058,312 kWh; rev. $2,620,924. (1929)*

BRINSON, City of, City Hall, 31725, 912/246-5720, Ed Mitchell, mayor; no gen.; pur. 1,449,196 kWh; rev. $50,000.*

BUFORD, City of, 30 Garnett St., 30518, 404/945-6761, Earley Biffle, city mgr.; 2,110 met.; no gen.; pur. 28,739,805 kWh; rev. $1,469,823.*

CAIRO, City of, Box 29, 31728, John W. Walker, city mgr.; 4,115 met.; no gen.; pur. 88,567,202 kWh; rev. $3,120,993. (1902)*

CALHOUN, City of, Box 924, 30701, 404/629-2276, Jack H. Bell, elec. supt.; 2,514 met.; no gen.; pur. 125,471,562 kWh; rev. $4,469,468. (1900)*

CAMILLA, City of, Box 328, 31730, 912/336-5636, Clarence H. Bryant, city mgr.; 2,060 met.; no gen.; pur. 60,006,880 kWh; rev. $2,962,382. (1925)*

CARTERSVILLE Elec. System, 320 S. Erwin, Box 648, 30120, 404/382-1171,ext 237 or 238, Ralph L. Oglesby elec. supt.; 4,487 met.; no gen.; pur 27,690,360 kWh; rev. $11,297,769. (1905)*

CHICKAMAUGA Elec. System, Box 68, 30707, 404/375-317[illegible], Mike McDonald, mgr.; 788 met.; no gen.; pur. 33 million kWh; rev. $1,384,249. (1963)*

COLLEGE PARK, City of, 366[illegible] Main St., 30337, 404/767-1537, Jerry L. Gawltney, city mgr.; 11,[illegible]77 met.; no gen.; pur. 21,463,460 kWh; rev. $9,020,757.*

COMMERCE, City of, Box 348, 30529, 404/335-3164, Thomas Beck, supt.; 1,996 met.; no gen.; pur. 33,084,605 kWh; rev. $1,705,513.*

COVINGTON, City of, 2111 Conyers St., Box 1527, 30209, 404/786-5324, Frank B. Turner, city mgr.; 6,340 met.; no gen.; pur. 122,670,501 kWh; rev. $6,698,101. (est. 1900)*

CRISP COUNTY POWER COMMISSION, Box 1218, Cordele, 31015, 912/273-3811, Frank L. Olson, mgr.; 9,234 met.; gen. 30,500 kW, 12,500 kW coal, 5,000 kW gas turbine, 13,000 kW hydro, 58,346,400 kWh; pur. 154,877,194 kWh; rev. $8,444,290. (1927)*

DALTON Utilities, Box 869, 30720, 404/278-1313, DeForrest Parrott, gen. mgr.; 9,537 met.; pur. 602 million kWh; rev. $21,630,921. (1890)

DOERUN, City of, Box 37, 31744, 912/782-5444, J. B. Walters, city mgr.; 474 met.; no gen.; pur. 5,626,454 kWh; rev. $354,644. (1911)*

DOUGLAS, City of, Box 470, 31533, 912/384-3302, Joe Glen Solomon, supt.; 4,489 met.; no gen.; sales 125,880,886 kWh; rev. $6,664,781. (1899)*

EAST POINT, City of, 2777 East Point St., 30344, 404/765-1027, Marshall J. Collins, dir.; 16,385 met.; no gen.; pur. 286,641,373 kWh. *

ELBERTON, City of, Elec. Util., 234 N. McIntosh St., 30635, 404/283-2575, J. N. Jackson, supt.; 4,196 met.; no gen.; pur. 73.7 million kWh; rev. $2,798,700. (1895)*

ELLAVILLE Mun. Elec. Light Plant, 31806, Virginia R. Whaley, city clerk; 705 met.; no gen.; pur. 9 million kWh; rev. $241,657.*

FAIRBURN Electrical Dept., 56 Malone St., 30213, 404/964-2244, Alex Howell Sr., city mgr.; 1,538 met.; no gen.; pur. 24,087,398 kWh; rev. $1,098,886.*

FITZGERALD Water, Light & Bond Comm., Drawer F, 31750, 912/423-2016, Carlton J. Fowler, 5,350 met.; no gen.; pur. 120,373,325 kWh; rev. $5,508,716. (1907)*

FORSYTH, City of, Box 1447, 31029, 912/994-5649, Guy F. Walker, supt.; 1700 met.; no gen.; pur. 38,280,448 kWh; rev. $2,017,126.*

FORT VALLEY, City of, Utils. Comm., 400 Anthoine St., Box 529, 31030, 912/825-7701, Fred J. Sankey, dir.; 4,256 met.; no gen.; pur. 80,251,259 kWh; rev. $3,860,123. (1905)*

GRANTVILLE, City of, Box 126, 30220, 404/583-2289, Paul F. Musick Jr., mayor; 440 met.; no gen.; pur. 4,007,389 kWh; rev. $179,931.*

GRIFFIN, City of, Box 797, 30224, 404/229-1506, Clifford Hutson, dir., elec. dept.; 11,585 met.; no gen.; pur. 26,339,130 kWh; rev. $8,817,814. (1895)*

HAMPTON Elec. Dept., 30228, 404/946-4306, Martha Barnette, city clerk; 740 met.; no gen.; pur. 40,000 kWh; rev. $450,000.

HOGANSVILLE Mun. Light Plant, 103 Main St., 30230, David Street, supt.; no gen.; pur. 13.7 million kWh.*

JACKSON, City of, Box 3838, 30233, 404/775-7535, S. V. Lunsford, elec. dept. supt.; 1,409 met.; no gen.; pur. 25,821,173 kWh; rev. $1,336,840. (1900)*

LA FAYETTE Mun. Elec. Dept., Box 89, 30728, 404/638-1082; Paul Van Dusen, supt.; Grady McCalmon, city mgr.; 3,313 met.; no gen.; pur. 74 million kWh; rev. $2,653,732. (1925)*

LA GRANGE, City of, 200 Ridley Ave., 30240, 404/884-7386, C. W. Hughes, dir. of utils.; 10,458 met.; no gen.; pur. 261,995 kWh; rev. $11,978,949. (1900)*

LAWRENCEVILLE, City of, 405 S. Clayton St., 30245, 404/963-2414, Don Martin, mgr.; 3,890 met.; no gen.; pur. 89,581,141 kWh; rev. $2,984,648. (1920)*

MANSFIELD, Town of, Box 35, 30255, 404/786-7235, Wayne Blackwell, chrmn. of elec. dept.; 212 met.; no gen.; pur. 2,629,053 kWh; rev. $115,324. (1910)*

MARIETTA City of, Board of Lights & Water, Box 609, 30061, 404/429-4200, John M. Crane, city mgr.; 30,071 met.; no gen.; pur. 509,860,502 kWh; rev. $28,105,137. (1906)*

MONROE Water, City of, Water, Light & Gas Comm., 215 N. Broad St., 30655, 404/267-5756, John T. Briscoe Jr., supt.; 4,012 met.; no gen.; pur. 76,765,061 kWh; rev. $3,392,646. (1906)*

MONTICELLO, City of, 115 E. Greene St., 31064, 404/468-6062, V.P. Hafer, clerk-treas.; 1,147 met.; no gen.; sales 15,668,910 kWh; rev. $790,785. (1905)*

MOULTRIE, City of, Box 580, 31768, 912/985-1974, Bob Roberson, city mgr.; 6,461 met.; no gen.; pur. 170,541,671 kWh; rev. $7,312,385. (1898)*

NEWNAN Water, Sewerage & Light Comm., 70 Sewell Rd., Box 578, 30263, 404/253-5516, Carl G. Miller, gen. mgr.; 5,191 met.; no gen.; pur. 79,480,909 kWh; rev. $4,271,541. (1904)*

NORCROSS, City of, 333 Mitchell Rd., 30071, 404/448-2122, Doug Wood, elec. supt.; 4,800 met., no gen.; pur. 29 million kWh.(1929)*

OXFORD Water & Light System, 810 Wahtcoat St., 30267, 404/786-7004, E.V. Moss, supt.; 600 met., no gen.

PALMETTO City, 549 Main St., 30268; 404/463-3377, Charles Montgomery, city admin.; 750 met.; no gen.; pur. 277,067 kWh; rev. $521,974.*

QUITMAN City of, Box 208, 31643, 912/263-4166, J.P.Griffin, elec. supt.; 2,429 met.; no gen.; pur. 41,472,280 kWh; rev. $1,873,909.*

SANDERSVILLE, City of, Elec. Dept., Box 71, 31082, 912/552-5370, Wayne Pool, elec. supt.; 2,800 met.; no gen.; pur. 42,898,936 kWh ,rev. $2,010,803. *

SYLVANIA, City of, Box 555, 30467, 912/564-7411, E. K. Overstreet, city mgr.; 1,856 met.; no gen.; pur. 94,839,592 kWh; rev. $4,130,126. (1910)*

SYLVESTER, City of, Box 368, 31791, 912/776-3346, Charles Jones, supt.; 2,283 met.; no gen.; pur. 5,486,400 kWh; rev. $2,706,426. (1903)*

THOMASTON, City of, Box 672, 30286, 404/647-6633, Frank Spraggins, elec. supt.; 4,050 met.; no gen.; pur. 62,114,891 kWh; rev. $3,931,741.*

THOMASVILLE Water & Light Dept., 411 W. Jackson St., Box 1397, 31799, 912/226-3708, Henry O'Quinn, asst. gen. supt.; 13,025 met.; no gen.; pur. 311,037,493 kWh; rev. $14,448,690. (1906)*

WASHINGTON, City of, Box 9, 30673, 404/678-3277, E. B. Pope, mayor; 2,278 met.; no gen.; pur. 72,484,417 kWh; rev. $3,305,040. (1897)*

WEST POINT, City of, Box 487, 31833, 404/645-2226, John F. Meadors, admin.; 1,584 met.; no gen.; pur 30,157,858 kWh; rev. $1,327,907. (1900)*

WHIGHAM Elec. Dept., Box 71, 31797, 912/762-4114, Keith Sandefur, elec. supt.; 200 met.; no gen.; pur. 4.5 million kWh.(1908)*

IDAHO

ALBION Light & Water Plant, Box 163, 83311, 208/673-5351, John K. Powell, mayor; 163 met.; no gen.; pur. 3 million kWh; rev. $30,000. (1916)*

BONNERS FERRY, City of, Box 149, 83805, 1-208/267-3105, Harold Sims, mayor, 2,011 met.; gen. 6,390 kW, 2,440 kW oil (diesel), 3,950 kW hydro; 33,123,000 kWh; pur. 69,169,000 kWh; rev. $1,745,983. (1922)*

BURLEY, City of, 2020 Park Ave., 83318, 208/678-2538, Donald R. Hill, utils. dir., 3,848 met.; no gen.; pur. 108,326,760 kWh; rev. $4,023,202.*

DECLO City of, Box 141, 83323, 208/654-6391, Nuelda Matthews, clerk, 104 met.; no gen.; pur. 2,798,719 kWh; rev. $24,561 (1910)

HEYBURN, City of, Box 147, 83336, 208/678-8158, Larry Burbank, supt.; 1,023 met.; no gen.; sales 65,173,966 kWh; rev. $912,851. (1910)

IDAHO FALLS, City of, Box 220, 83402, 208/529-1430, Steve Harrison, mgr.; elec. div.; 17,404 met.; 27,000 kW hydro; 145,004,600 kWh; pur. 477,687,200 kWh; rev. $14,751,729. (1900)*

MINIDOKA, City of, 83343, 208/532-4575, Deon Fassett, clerk; 55 met.; no gen.; pur. 1 million kWh. (1924)

PLUMMER Elec. Dept., 83851, 208/686-1422, W. T. Neibuhr, mgr.; 550 met.; no gen.; pur. 13 million kWh; rev. $258,000. (1916)

RUPERT, City of, Elec. Dept., Box 426, Civic Bldg., 83350, 208/436-9608, Elmer V. Schenk, mgr.; 2,600 met.; no gen.; pur. 75,000,000 kWh; rev. $1,100,000. (1919)

SODA SPRINGS Mun. Power & Light, 9 W. Second St., 83276, 208/547-2151, John F. Hendrickson, city admin.; 1,650 met.; gen. 535 kW hydro, 2,326,600 kWh; pur. 22,120,000 kWh; rev. $1,244,848. (1912)

WEISER, City of, Electric, 55 W. Idaho St., 83672, 208/549-1965, Keith Herrick, supt.; 2,500 met.; no gen.; pur. 36 million kWh; rev. $535,267. (1908)

WORLEY, City of, Box 218, 83876, 208/686-1258, Kathy Green, city clerk, 94 met.; no gen.

ILLINOIS

ALBANY Elec. Dept., Box 356, 61230, 309/887-4901, Gary Gooch, supt.; 400 met.; no gen.; pur. 3,848,635 kWh; rev. $148,959.

ALLENDALE Mun. Util., Box 85, 62410, 618/299-3181, Robert K. Kight, supt.; 272 met.; no gen.; pur. 2,603,200 kWh; rev. $143,242. (1949)*

ALTAMONT Mun. Elec., 202 N. Second St., 62411, 618/483-5212, Terry White, supt.; 1,224 met.; no gen.; pur. 14,293,644 kWh; rev. $921,893 (1901)

BATAVIA, City of, 101 N. Island Ave., 60510, 312/879-1424, Mario Perez, supt. of elec.; 4,600 met.; no gen.; pur. 94,000,000 kWh; rev. $6,670,000. (1898)

BETHANY, Village of, Mun. Power, Box 352, 61914, 217/665-3351, Frank Roby Jr., mgr.; 654 met.; no gen.; pur. 7,486,747 kWh; rev. $468,529. (1914)*

BREESE Water & Light Dept., 800 N. First St., 62230, 618/526-7151, Martin F. Johnson; 1,445 met.; gen. 2,000 kW oil (steam turbine), 6,900 kW dual-fuel (eng.), 284,880 kWh; pur. 22,947,180 kWh; rev. $1,273,099. (1906)*

BUSHNELL Mun. Light & Power, 148 E. Hail St., 61422, 309/772-2029, Bert L. Sammons, mgr.; 1,250 met.; gen. 6,280 kW dual-fuel (eng.); 394,680 kWh; pur. 22,117,918 kWh; rev. $1,518,300. (1941)*

CAIRO Pub. Util. Comm., 1100 Commercial Ave., 62914, 618/734-3200, Karl H. Klein, mgr.; 2,704 met.; no gen.; sales 75,524,946 kWh; rev. $3,360,239. (1947)*

CARLYLE Mun. Util., 500 1st St., 62231, 618/594-3321, Edward H. Kleber, supt. of utils.; 1,569 met.; gen. 1,050 kW oil (eng.), 5,000 kW dual-fuel (eng.), 225,000 kWh; pur. 26,051,000 kWh; rev. $1,480,024. (1901)*

CARMI Light & Water, Box 65, 62821, 618/382-8118, J. B. Brown, mayor; 3,800 met.; gen. 1,670 kW oil-fired, 12,730 kW dual-fuel, 18,336,100 kWh; pur. 916,187 kWh; rev. $2,283,716. (1925)

CASEY, City of, Box 425, 108 E. Main, 62420, 217/932-4885, Ray Mitchell, supt. of utils.; 1,780 met.; no gen.; pur. 24,048,000 kWh; rev. $1,395,706.

CHATHAM, Village of, 117 E. Mulberry, 62629, 217/483-2451, Tony Moore, supt.; 2,000 met.; no gen.; pur. 34,330,800 kWh; rev. $1,011,398. (1942)

FAIRFIELD Mun. Light Plant, N.W. 6th St., 62837, 618/842-4821, Claude Trotter, supt.; 3,190 met.; gen. 2,700 kW oil-fired, 4,800 kW dual-fuel (eng.), 130,000 kWh; pur. 57,453,506 kWh. (1898)

FARMER CITY, Mun. Power Plant, East Allen St., 61842, 309/928-6421, Harold Miller, supt.; 1,197 met.; gen. 2,430 kW oil, 5,050 dual-fuel eng.; rev. $966,539. (1895)*

FLORA Mun. Light Plant, 62839, Box 98, 618/662-5131, Harold Hemphill, supt., 3,122 met.

FREEBURG, Village of, 101 S. Bellville St., 62243, 618/539-3112, Quinton W.Laabs, dir. of services; 1,419 met.; gen. 4,485 kW dual-fuel (eng.); 50,000 kWh; pur. 18,918,480 kWh rev. $1,160,553.

GENESEO Mun. Utils., 433 E. North St., 61254, 309/944-5678, Owen Dean, supt.; 3,003 met.; gen. 19,600 kW, 1,000 kW oil (eng.),18,600 kW dual-fuel (eng.), 15,537,500 kWh; pur. 28,346,000 kWh; rev. $2,895,152. (1933)*

GENEVA Mun. Elec. System, 2 W. State St., 60134, 312/232-1503, Reginald Fellhauer, dir.; 4,306 met.; no gen.; pur. 102.6 million kWh; rev. $5,049,000. (1894)*

GREENUP Light & Power Dept., Box 246, 62428, 217/923-3401, John D. Carr, supt.; 890 met.; no gen.; pur. 8,928,782 kWh; rev. $435,746. (1954)

HIGHLAND Electric, 1115 Broadway, 62249, 618/654-7511, W. Johnson, city mgr., 4,228 met.; gen. 12,000 kW dual-fuel, 542,000 kWh; pur. 72,500,000 kWh; rev. $4,020,000. (1899)*

LADD, Village of, Box 305, 61329, 815/894-2351, Clarence Foster, supt.; 526 met.; no gen.; pur. 5,969,080 kWh; rev. $330,019

MARSHALL, City of, Box 298, 62441, 217/826-8386, George Smith, supt.; 2,051 met.; no gen.; sales 24,665,818 kWh; rev. $1,503,897.

MASCOUTAH Power & Light Dept., 40 W. Union, 62258, 618/566-2965, D. L. Sitton, city mgr.; 2,077 met.; gen. 10,102 kW, 3,500 kW coal, 2,248 kW oil-fired, 4,354 kW dual-fuel, 778,000 kWh; pur. 26.4 million kWh; rev. $1,422,365.

McLEANSBORO Mun. Light & Water Plant, 102 W. Main, 62859, William Campbell, supt.; 1,700 met.; gen. 8,625 kW dual-fuel eng., 503,600 kWh; pur. 16,335,740 kWh. (1897)

METROPOLIS, City of, 106 W. Fifth St., 62960, 618/524-4016 or 4212, Jack Rushing, light supt.; 3,300 met.; no gen.

NAPERVILLE Elec. Dept., 175 W. Jackson Ave., 60566-1002, 312/420-6181, Victor Marma, dir. 18,282 met.; no gen.; pur. 417,883,446 kWh; rev. $30,919,430. (1898)*

NEWTON Light & Water Works, 108 N. Van Buren, 62448, 618/783-8451, Bob Reynolds, supt.; 1,565 met.; no gen.; pur. 24,100,000 kWh; rev. $1,279,228 (1925)

OGLESBY, City of, 128 W. Walnut St., 61348, 815/883-862 , Joe Popurella, util. supt.; 1,693 met.; no gen.; sales 14,800,899 kWh; rev. $811,377. (1910)*

PERU Light Dept., City Hall, 1415 Water St., 61354, 815/223-0044, Joe Prazen, supt., 4,566 met.; gen. 28,200 kW, 12,000 kW steam, 6;200 kW oil-fired (eng.), 10,000 kW gas-fired (eng.); pur. 2,558,266 kWh, rev. $3,919,653. (1924)*

PRINCETON Mun. Utils., 2 S. Main St. 61356, 815/872-5551, Steve Finn, mgr.; 4,121 met.; gen. 38,480 kW dual-fuel eng., 31,370,000 kWh; pur. 35,000,000 kWh; rev. $3,354,000. (1900)*

RANTOUL, Village of, 200 W. Grove St., 61866, 217/892-2178, Glenn E. Tadlock, supt.; 5,076 met.; 16,832 kW dual-fuel, 1.5 million kWh; pur. 69.6 million kWh; rev. $3,725,876. (1898)*

RED BUD, City of, 525 Power St., 62278, 618/282-3339, Ray Mitchell; 1,360 met.; gen. 11,016 kW, 1,556 kW oil-fired eng., 9,460 kW dual-fuel eng., 389,500 kWh; pur. 31,036,484 kWh; rev. $1,818,183. (1904)

RIVERTON, Village of, 313 E. Jefferson St., 62561, 217/629-9122, Michael Brewer, supt.; 1,179 met.; no gen.; pur. 12,657,600 kWh; rev. $799,454.

ROCHELLE Mun. Utils., 120 N. Seventh St., 61068, 815/562-4155, Theodore W. Volding, gen. supt.; 5,608 met.; gen. 11,500 kW coal (steam turbine), 3,700 kW oil, 15,700 kW (eng.), 66,295,900 kWh; pur. 61,504,800 kWh; rev. $6,920,506. (1893)*

ROCK FALLS, Elec. Dept., 203 E. Third, 61071, 815/625-0949, Robert O'Donnell, dir.; 5,260 met.; no gen.; pur. 61,416,042 kWh; rev. $4,403,489. (1895)*

ROODHOUSE Mun. Elec. Util., 119 W. Palm, 62082, 217/589-4351, Russell Wallis, supt.; 835 met.; no gen.; pur. 8,984,967 kWh; rev. $665,356.

ST. CHARLES, Elec. Util., 2 E. Main St., 60174, 312/377-4407, Patrick J. Boyle, dir. elec. util.; 8,113 met.; no gen.; sales 220,325,726 kWh; rev. $11,627,661. (1892)*

SPRINGFIELD City Water, Light & Power, Municipal Bldg.,Room 201, 7th & Monroe Sts., 62757, 217/789-2000, Paul Bonansinga, comm. pub. property; 55,058 met.; gen. 443,000 kW coal (steam turbine), 41,100 kW oil (combus. turbine), 1,385,055,575 kWh; pur. 28,632,000 kWh; rev. $72,570,844. (1906)*

SULLIVAN, City of, Mun. Utils., 2 W. Harrison St., 61951, 217/728-7622, Bill Harris, line supt.; 2,275 met.; gen. 15,475 kW dual-fuel (eng.), 30,346,400 kWh; pur. 4,656,000 kWh; rev. $2,252,262. (1927)*

WATERLOO Mun. Light & Power, 104 W. Fourth St., 62298, 618/939-8661, Jerry Gum, mayor; 2,075 met.; gen. 4,598 kW oil, 6,850 kW dual-fuel (eng.), 97,600 kWh; pur. 28,210,000 kWh; rev. 1,501,665. (1899)

WINNETKA Elec. Plant, 510 Green Bay Rd., 60091, 312/446-2500, Robert A. Buechner, village admin.; 5,026 met.; gen. 12,500 kW coal, 11,000 kW gas (steam turbine), 4,800 kW oil (eng.), 49,109,536 kWh; pur. 25,663,000 kWh; rev. $5,736,278. (1900)*

INDIANA

ADVANCE Power & Light, 112 N. Main St., 46102, 317/676-6611; Ralph Caldwell, supt.; 254 met.; no gen.; pur. 3,244,000 kWh; rev. $139,821. (1914)

ANDERSON Mun. Light & Power, 550 Baxter Rd., 46011, 317/646-5741, Charles J. Myers, supt.; 32,713 met.; no gen.; pur. 548,021,000 kWh; rev. $25,059,000. (1897)*

ARGOS Mun. Elec. Util., 119 W. Walnut St., 46501, 219/892-5717, Wilmer Harley, pres., bd. of trustees; 776 met.; no gen.; pur. 12,401,871 kWh; rev. $731,518.

AUBURN Elec. Dept., Cedar & Ninth Sts., 46706, 219/925-0365, Clyde James, elec. supt.; 5,955 met.; no gen.; pur. 157,716,000 kWh; rev. $6,285,959. (1900)

AVILLA Elec. Dept., 117-21 S. Main St., 46710, 219/897-3651, Paul Bolinger, supt.; 398 met.; no gen.; pur. 2.5 million kWh.

BAINBRIDGE Mun. Elec., 6 W. Main St., 46105, 317/522-6238, James Nelson, supt.; 329 met.; no gen.; pur. 3,520,800 kWh; rev. $177,605. (1915)

BARGERSVILLE Power & Light, Box 420, 46106, 317/422-5115, Joe M. Harrod, supt.; 1,600 met.; no gen.; pur. 21,626,400 kWh; rev. $884,448. (1921)*

BLUFFTON Utils. Elec. Dept., 128 E. Market St., 46714, 219/824-2500, Edward C. Davis, supt.; 4,362 met.; gen.2,000 kW oil (eng.), 5,000 kW dual-fuel (eng.), 5,060,300 kWh; pur. 100,113,600 kWh; rev. $4,438,380. (1889)

BOONEVILLE Mun. Elec. Plant, 113 S. Second St., 47601, 812/897-0140, Charles Davis, supt.; 1,700 met.; no gen.; rev. $484,277.

BREMEN Elec. Light & Power Co., 123 S. Center St., 46506, 219/546-4324, Dudley A. Keyser, dir. of oper.; 1,806 met.; no gen.; pur. 45,655,754 kWh; rev. $2,812,178. (1895)*

BROOKLYN Mun. Util., 46111, 317/831-3343, Dan Brenton, supt.; 360 met.; no gen; rev. $142,925.

BROOKSTON Mun. Elec. Co., 205 E. 3rd St., Box 187, 47923, 317/563-3171, Charles L. Fountain, supt.; 774 met.; no gen.; pur. 10,720,800 kWh; rev. $439,416. (1916)

CANNELTON Utils., 610 Washington St., 47520, 812/547-7919, Steve Gaynor, gen. mgr.; 1,048 met.; no gen.; pur. 15,222,600 kWh; rev. $645,000.

CENTERVILLE Mun. Elec. Light & Power Dept., Box 307, 47330, 317/855-2191, James Bowen, supt.; 1,000 met.; no gen.; pur. 12 million kWh.*

CHALMERS Mun. Elec. Dept., 47929, 219/984-5494, Ralph Nevitt, town bd. pres.; 303 met.; no gen.; pur. 3.2 million kWh, rev. $182,361.

COATESVILLE, Town of, Light and Power, North Milton, Box 143, 46121, 317/386-7205, James Rollings, plant mgr.; 269 met.; no gen.; pur. 3,108,400 kWh; rev. $172,511. (1912)

COLUMBIA CITY Mun. Elec. S. Chauncey St., 46725, 219/244-5141, Harold Sheets, foreman; 3,828 met.; no gen.; pur. 72,444,000 kWh; rev. $3,112,072.

COVINGTON Elec. Dept., 413 Washington St., 47932, 317/793-2331, Gene Hulbert, supt.; 1,454 met.; no gen.; pur. 19,784,800 kWh; rev. $1,154,646.(1913)*

CRAWFORDSVILLE Electric Light & Power, 300 E. Pike St.,Box 428, 47933, 317/362-1900, Roy E. Kaser, mgr.; 7,696 met.; gen. 24,150 kW coal, 54,902,600 kWh; pur. 267,063,926 kWh; rev. $12,400,670. (1890)*

DARLINGTON Light & Power Co., 104 S. Franklin St., 47940-0125, 317/794-4496, Wesley D. Tribbett, supt.; 564 met.; no gen.; pur. 7,500,000 kWh; rev. $372,180. (1919)*

DUBLIN Mun. Elec., Box 145, 47335, 317/478-4878, Monica V. Davis, clerk-treas.; 453 met.; no gen.; sales 4,080,000 kWh; rev. $19,076. (1920)

DUNREITH Elec. Light Dept., 47337, 317/987-7474, Shelby Linville, clerk-treas.; 200 met.; no gen.; rev. $51,000.

EDINBURGH Mun. Elec. Util., 107 S. Holland St., Box 65, 46124, 812/526-2919, Betty M. Essex, town mgr.; 2,196 met.; no gen.; pur. 53,654,400 kWh; rev. $834,014. (1898)*

ETNA GREEN Elec. Light Dept., Box 171, 46524, 219/387-3835, William Price, supt.; 300 met.; no gen.

FERDINAND Mun. Elec. Dept., W. Fifth St., Box 7, 47532, 812/367-1011, James R. Meyer, supt.; 647 met.; no gen.; pur. 12,858,000 kWh; rev. $447,954. (1922)

FLORA Elec. Util., 27 W. Main, 46929, 219/967-4844, Charles Everett, util. mgr.; 1,200 met.; no gen.; pur. 20,894,240 kWh; rev. $811,346. (1946)*

FRANKFORT City Light & Power, 16 N. Main St., Box 578, 46041, 317/659-3362, John F. Shelburne, supt.; 8,350 met.; pur. 170 million kWh; rev. $5,846,902. (1902)*

FRANKTON Elec. Util., Box 286, 46044, 317/754-7285, Russell D. Swaim Jr., supt.; 1,012 met.; no gen.; pur. 14,349,600 kWh; rev. $3,414,059. (1900)*

GARRETT Mun. Utils., S. Randolph St., 46738, 219/357-4400, William Rex Frain, supt.; 2,417 met.; no gen.; pur. 39,960,000 kWh; rev. $1,812;120. (1896)

GAS CITY Light Dept., 211 E. Main, 46933, 317/674-5660, Frank Leist,utils. supt., 2,637 met.; no gen.; pur. 39,744,000 kWh; rev. $1,708,129.*

GREENDALE Utils., 510 Ridge Ave., Lawrenceburg, 47025, 812/537-2125, F. R. Rudolph, supt.; 1,641 met.; no gen.; pur. 76,136,652 kWh; rev. $3,098,223. (1934)*

GREENFIELD Elec. Mun. Co., 110 S. State St., 46140, 317/462-5412, Dick Towne, supt.; 4,602 met.; no gen.; sales 78,997,426 kWh; rev. $2,799,183.*

HAGERSTOWN Mun. Light Dept., 49 E. College St., 47346, 317/489-5132, Ron Roach, supt.; 1,200 met.; no gen.; pur. 18,000,000 kWh; rev. $720,700. (1923)

HUNTINGBURG Mun. Elec. Util., 514 Fourth St., 47542, 812/683-2211, Loma Wm. Hartke, supt.; 2,648 met.; no gen.; sales 42,575,065 kWh; rev. $1,948,648.*

JAMESTOWN Mun. Light Dept., Box 128, 46147, 317/676-6331, W. D. Henry, supt.; 420 met.; no gen.; pur. 5,691,200 kWh; rev. $275,140. (1917)*

JASPER Mun. Elec. Util., Box 150, 47546, 812/482-3003, Gordon Houchin, elec. mgr., 4,306 met.; gen. 14,500 kW coal, 83,748,000 kWh; pur. 81,438,000 kWh; rev. $6,586,765.(1904)

KINGSFORD HEIGHTS Mun. Util., 46346, 219/393-3309, Don Cooper, supt.; 530 met.; no gen.

KNIGHTSTOWN Light Util., 26 S. Washington St., 46148, 317/345-5977, Lillian Williams, clerk-treas., 1,578 met.; no gen., pur. 17,628,800 kWh; rev. $617,861. (1894)

LADOGA Light Dept., 47954, 317/942-2531, James Cross, mgr.; no gen.

LAWRENCEBURG Mun. Elec. Util., 405 Main St., Box 112, 47025, 812/537-2420, Roland Horney, dir. of utils.; 2,357 met.; no gen.; pur. 64,388,758 kWh; rev. $3,021,325.*

LEBANON, City of, Utils., 201 E. Main St., Box 479, 46052, 317/482-5100, James B. Nelson, mgr.; 5,696 met.; no gen.; pur. 105,786,000 kWh; rev. $4,740,655. (1942)*

LEWISVILLE Mun. Light Dept., 47352, 317/987-7979, Robert Harris, supt.; 200 met.; no gen.

LINTON Mun. Elec. Util., 49 N.W. "A" St., 47441, 812/847-4971, Simmie K. Wright, mayor; 3,330 met.; no gen.; sales 43,556,210 kWh; rev. $2,088,604. (1912)*

LOGANSPORT Mun. Util., City Bldg., 601 E. Broadway, 46947, 219/753-6231, K. W. Hemberger, actg. supt.; 12,017 met.; gen. 99,253,840 kWh steam turbine (coal); pur. 152,707,200 kWh; rev. $13,750,876.*

MIDDLETOWN Elec. Util., 102 N. Fifth St., 47356, 317/354-2911, Richard Westrater, supt.; 1,250 met.; no gen.; pur. 14,191,200 kWh; rev. $638,881. (1911)*

MISHAWAKA Mun. Utils., 126 N. Church St., Box 363, 46544, 219/259-4242, Roger W. Bock, gen. mgr.; 18,942 met.; no gen.; pur. 274,045,400 kWh; rev. $10,300,439. (1904)*

MONTEZUMA Mun. Utils., 141 Crawford St., 47862, 317/245-2759, Leroy Waymire, field supvr.; 779 met.; no gen.; pur. 3.3 million kWh.

NEW CARLISLE Mun. Elec. Util., 113 S. Arch St., 46552, 219/654-3733, Cecil McCollum, town electrician, 620 met.; no gen.; pur. 7.1 million kWh; rev. $246,730. (1905)

NEW ROSS Elec. Service Dept., 47968, 317/723-1154, Harold Poland, supt.; 180 met.; no gen.; pur. 1.2 million kWh; rev. $33,078.

PAOLI Water & Light Dept., Public Square, 47454, 812/723-2739, Herbert Bostock, supt.; no gen.*

PENDELTON Mun.Elec. Co., 119 W. State St., Box 230, 46064, 317/778-2173, Jack Guard, supt.; 1,516 met.; no gen.; pur. 22,898,400 kWh; rev. $1,137,800.*

PERU, City of, Utils., Box 67, 46970, 317/473-6681, William H. Buffington, mgr.; 9,580 met.; gen. 32,000 kW coal (steam turbine), 50,089,000 kWh; pur. 161,300,000 kWh; rev. $7,351,800. (1903)*

PITTSBORO Mun. Light Plant, 46167, 317/892-3435, Charles Water, supt.; no gen.

RENSSELAER Mun. Elec. Util., 122 S. Van Rensselaer St., 47978, 219/866-5212, Stephen A. Wood, mayor; 2,633 met.; gen. 4,450 kW oil, 9,640 kW dual-fuel (eng.), 115,960 kWh; pur. 52,293,600 kWh; rev. $2,897,204. (1896)*

RICHMOND Power and Light, Box 908, 47374, 317/935-3131, Irving A. Huffman, gen. mgr.; 20,236 met.; gen. 93,000 kW coal, 409,836,940 kWh; pur. 560,791,610 kWh; rev. $38,006,741. (1902)*

RISING SUN Mun. Utils., First and Poplar Sts., 47040, 812/438-3616, Neal Hastings, supt.; 1,283 met.; no gen.; pur. 16,908,263 kWh; rev. $607,346. (1939)*

ROCKVILLE Elec. Light Plant, 105 W. High St., 47872, 812/569-5145, James Skelton, supt.; 1,647 met.; no gen.; pur. 22.4 million kWh; rev. $1,082,000.

SCOTTSBURG Mun. Elec. Light Dept., 2 E. McClain, 47170, 812/752-4343, Herbert Robison, supt.; 3,000 met.; no gen.; pur. 48,000,000 kWh; rev. $100,000. (est. 1902)*

SOUTH WHITLEY Mun. Elec. Light Dept., 202 East Front St., Box 372, 118 E. Front St., 46787, 219/723-4741 or 5312, Steve Lewis, supt.; 892 met.; no gen.; pur. 13,988,600 kWh; rev. $571,830. (1895)*

SPICELAND Mun. Light Plant, 47385, 317/987-7365, William Acton, supt.; 500 met.; no gen.

STRAUGHN Mun. Elec. Plant, 47387, 317/891-3166, Eldon Sons, supt.; 167 met.; no gen.; pur. 1 million kWh; rev. $55,800.

TELL CITY Elec. Dept., Box 9, City Bldg., 47586, 812/547-3201, Jack M. Joyce, supt.; 4,161 met.; no gen.; pur. 99,708,000 kWh; rev. $4,096,624. (1941)*

THORNTOWN Utils., 109 W. Main St., 46071, 317/436-2627, Jack Hutchens, supt.; 711 met.; no gen.; pur. 8,607,600 kWh; rev. $362,688. (1951)

TIPTON Mun. Elec., 225 E. Jefferson St., 46072, 317/675-7629, Noel C. Olse, util. mgr.; 4,381 met.; no gen.; pur. 68,764,800 kWh; rev. $3,201,017. (1901)*

TROY Utils., Box 57, 47588, 812/547-7501, Charles Kuntz, supt.; 312 met.; no gen.; pur. 3,662,400 kWh; rev. $203,524. (1941)

VEEDERSBURG Mun. Elec. Util., 118 Railroad Ave., 47987, 317/294-2728, Charles R. Shelton, supt.; 1,025 met.; no gen.; pur. 11,611,200 kWh; rev. $411,760. (1898)

WALKERTON Elec. Dept., 510 Roosevelt Rd., 46574, 219/586-3613, Marvin Williams, supt.; 1,050 met.; no gen.; pur. 18.1 million kWh;rev. $946,700.

WARREN Mun. Elec., Box 477, 46792, 219/375-3424, Charles Booher, supt.; 700 met.; no gen.; 11.2 million kWh; rev. $548,101.

WASHINGTON City Light & Power, City Hall, 101 N. E. Third St., 47501, 812/254-2730 & 254-5171, Brayton Nalker, supt.; 7,276 met.; no gen.; pur. 102,456,000 kWh; rev. $4,506,034. (1926)*

WAYNETOWN Mun. Elec. Dept., Box 215, 47990, 317/234-2154, Richard Peterman, supt.; 470 met.; no gen.; rev. $150,881.

WILLIAMSPORT Elec. Util., 29 N. Monroe St., 47993, 317/762-3257, Richard S. Briles, pres. town bd.; 780 met.; no gen.; pur. 11,302,800 kWh; rev. $412,118. (1899)

WINAMAC Mun. Light & Power, 120 Main St., 46996, 219/946-3451, A. Allen Boos, clerk-treas.;1,590 met.; no gen.; sales 30,541,362 kWh. (1895)*

IOWA

AFTON Mun. Elec. Light, City Hall, 50830, 515/338-2263, Gary D. Kelley, 447 met.; no gen.; pur. 5,193,600 kWh; rev. $236,396.

AKRON Municipal, Box 85, 51001, 712/568-2041, Robert Borchers, dir. of pub. wks.; 790 met.; pur. 10,441,692 kWh; rev. $351,058. (1921)

ALGONA Mun. Utils., 104 W. Call St., 50511, 515/295-3584, Nicholas R. Scholer, gen. mgr.; 3,357 met.; gen. 28,000, 15,000 kW coal, 13,000 kW dual-fuel, 88,228,740 kWh; pur. 13,961,000 kWh; rev. $4,460,628. (1898)*

ALTA Mun. Power Plant, 223 Main St., 51002, 712/284-1122, Ronald L. Deiber, supt.; 1,024 met.; gen. 1,250 kW oil-fired; 2,750 kWh; pur. 12,611,788 kWh; rev. $417,591. (1893)*

ALTA VISTA Elec. Dept., City Hall, 50603, 515/364-6732, Daniel White; 105 met.; no gen.; pur. 1.6 million kWh; rev. $44,342.

ALTON Mun. Elec., Box J, 51003, 712/756-4314, Curtis Punt, pub. works dir.; 546 met.; no gen.; pur. 8,049,509 kWh; rev. $326,425. (1968)*

AMES Mun. Elec. System, Municipal Bldg., 50010, 515/232-6210, Merlin C. Hove, dir.; 14,148 met.; gen. 81,000 kW, 60,000 kW steam, 20,000 kW gas turbine, 1,000 kW eng., 222 million kWh; pur. 75.4 million kWh; rev. $15,692,217. (1896)*

ANITA Mun. Utils., 828 Main St., 50020, 712/762-3845, Edward J. Brownsberger Jr., supt.; 637 met.; gen. 747 kW oil (eng.), 4,400 kWh; pur. 7,424,427 kWh; rev. $251,150.(1939)

ANTHON, City of, 51004, 712/373-5218, Robert L. Kindig, supt.; 560 met.; no gen.; pur. 4,018,410 kWh; rev. $229,962. (1976)

APLINGTON Mun. Light System, Box 308, 50604, 319/347-2425, Timothy Ubben, supt.; 488 met.; no gen.

ATLANTIC Mun. Utils., Box 517, 50022, 712/243-1395, Richard J. Stevens, supt.; 4,356 met.; gen. 30,150 kW, 17,500 kW coal, 8,500 kW gas or oil, 4,150 kW dual-fuel, gas/oil, 77,792,000 kWh; pur. 33,557,581 kWh; rev. $4,281,333. (1908)*

AUBURN Mun. Util., Box 238, 51433, 712/688-2264, Warren Prefley, supt.; 184 met.; no gen.; sales 1,416,865 kWh, rev. $102,310.

AURELIA Mun. Elec. Util., 235 Main St., 51005, 712/434-2025, Edmund Radke, chmn., bd. of trustees; 558 met.; no gen.; sales 5,607, 806 kWh; rev. $367,242. (1974)

BANCROFT Mun. Utils., 108 N. Portland St., 50517, 515/885-2772, Walter Fangman, supt.; 593 met.; gen. 1,500 kW oil, 32,800 kWh; pur. 9,454,377 kWh; rev. $531,350. (1939)*

BELLEVUE Mun. Utils., 900 N. Riverview, 52031, 319/872-3357, Ray Beschen, supt.; 1,617 met.; gen. 5,320 kW eng., 79,700 kWh; pur. 15,408,600 kWh; rev. $842,224. (1896)

BLOOMFIELD Mun. Light Plant, 111 W. Franklin St., 52537, 515/664-2260, Larry Kilburn, pub. wks. dir.; 1,300 met.; gen. 7,100 kW dual-fuel, 1,500 kW diesel; 2,561,000 kWh; pur. 21,852,000 kWh; rev. $332,093. (1911)

BREDA Elec. System, 51436, 712/673-2660, Jim Uleding, mgr.; 272 met.; no gen.; rev. $111,707.

BROOKLYN Mun. Elec. Plant, 207 Front St., 52211, 515/522-9292, Dale Hawkins, mgr.; 793 met.; gen. 2,424 kW eng., pur. 8,770,398 kWh; rev. $323,783. (1940)

BUFFALO, City of, 52728, 319/381-2226, Carol Bernauer, city admin.; Ralph Jewett, pub. wks. supvr., 520 met.; no gen.

BURT Mun. Elec. Util., 119 Walnut St., Box 128, 50522, Karen L. Karels, city clerk; 301 met.; no gen.; pur. 3,688,800 kWh; rev. $232,094. (1920)

CALLENDER, City of, 415 Thomas St., 50523, 515/548-3859, Frank Schuster,;203 met.; no gen.; pur 1,762,000 kWh; rev. $97,317. (1965)

CARLISLE Mun. Elec. Util., Box 430, 50047, 515/989-0840, Fred Loudenslager, supt.; 1,324 met.; no gen.; pur. 14,601,000 kWh; rev. $815,412. (1931)

CASCADE Mun. Utils., 201 Pierce St., 52033, 319/852-3614, Fred A. Kremer, gen. mgr.; 867 met.; gen. 300 kW oil (eng.), 3,557 kW dual-fuel, 94,500 kWh; pur. 10,562,400 kWh; rev. $617,946. (1940)

CEDAR FALLS Elec. Util., 612 E. Twelfth St., 50613, 319/266-1761, Dean Crowe, gen. mgr.; 14,258 met.; gen. 87,550 kW coal, 75,000 kW gas (comb. turbine) pur. 149,852,000 kWh; rev. $13,4[illegible],578. (1913)*

COGGON Mun. Light Plant, 131 W. Main St., 52218, 319/435-2436, Robert L. Farley, supt.; 350 met.; gen. 1,740 kW oil-fired eng., 107,000 kWh; pur. 3,000,000 kWh; rev. $154,086. (1927)

COON RAPIDS Mun. Utils., 123 3rd Ave., Box 207, 50058, 712/684-2225, Eugene P. Smith mgr.; 760 met.; gen. 5,526 kW, 3,126 kW coal, 2,400 kW comb. cycle, 14,110,078 kWh; pur. 16,517,795 kWh; rev. $971,580. (1936)*

CORNING Mun. Utils., 501 Benton Ave., 50841, 515/322-3920, Dean R. Davis, mgr.; 1,150 met.; gen. 6,362 kW oil, 58,650 kWh; pur. 15,870,195 kWh; rev. $517,173. (1936)*

CORWITH Elec. Dept., 50430, 515/583-2342, Tim Berhow, supt.; 230 met.; no gen.; pur. 2,166,800 kWh; rev. $1,117,646.

DANVILLE Municipal, 105 W. Shepherd St., 52623, 319/392-8381, Allen W. Schillie, 402 met.; no gen. pur. 5,174,400, rev. $248,270.

DAYTON Light & Power, 101 S. Main, 50530; 515/547-2711, Shirley B. Miller, city clerk; 2,846 met.; gen. 318 kW oil-fired eng; 1,065 kW dual-fuel eng; 15,400 kWh; pur. 4,667,919 kWh; rev. $227,627.

DENISON Mun. Utils., Box 518, 51442, 712/263-4154, Brad Roos, gen. mgr.; 2,884 met.; no gen.; pur. 112.5 million kWh; rev. $3,760,000. (1914)*

DENVER City of Elec. Util., 117 N. State St., 50622, 319/984-5642, Larry Zars, city electrn., 686 met.; no gen.; pur. 8,007,600 kWh; rev. $377,130.

DIKE, City of, Main St., 50624, 319/989-2291, Agnes Biersner, city clerk, 400 met.; no gen.; pur. 5,170,500 kWh; rev. $268,389.

DURANT Mun. Elec. Plant, 601 Fourth St., Box 494, 52747, 319/785-6213, V. R. Crist, supt.; 785 met.; gen. 1,718 kW oil (eng.), 2,070 kW dual-fuel (eng.), 97,300 kWh; pur. 11,117,823 kWh; rev. $632,187. (1942)*

DYSART, City of, Elec. Utils., 436 Main St., 52224, 319/476-5690, Harold Langbehn, supt. of utils., 818 met.; no gen., pur. 8,487,360; rev. $471,579.

EARLVILLE Light & Water System, Box 67, 52041, 319/923-3365, Vincent D. Herman, supt.; 368 met.; no gen.; pur. 3,021,600 kWh; rev. $164,051. (1916)

ELDRIDGE Elec. & Water Util., 214 N. 2nd St., Box 350, 52748, 319/285-4841, John W. Miller, utils. mgr.; 1,146 met.; no gen.; pur. 16,122,500 kWh; rev. $1,051,790. (1900)*

ELLSWORTH Mun. Elec., 1551 DeWitt St., 50075, 515/836-4751, Raymond L. Anderson, supt.; 249 met.; no gen.; pur. 2,253,600 kWh; rev. $116,805.

ESTHERVILLE Mun. Elec. Util., 2 North 7th, 51334, 712/362-7771, Steve Woodley, city admir.; 3,383 met.; gen. 16,250 kW, 3,450 kW oil-fired, 12,800 kW dual-fuel, 175,300 kWh; pur. 49,669,800 kWh; rev. $2,776,089. (1894)

FAIRBANK Elec. Co., Box 411, 50629, 319/635-2869, Ted Vorwald, supt.; 420 met.; no gen.; pur. 4,056,000 kWh; rev. $222,664. (1920)

FARNHAMVILLE Elec. Dept., Box 206, 50538, 712/462-3366, Dennis Jacobson, supt.; 243 met.; no gen.; pur. 4,112,500 kWh; rev. $216,914,86. (1916)

FONDA Mun. Utils.,City Hall, 50540, 712/288-6618, Bill Tiedeman, city clk.; 406 met.; no gen.

FONTANELLE, City of, 313 Washington St., 50846, 515/745-3961, Delmer D. Miller, supt.; 473 met.; no gen.; pur. 5,437,898 kWh; rev. $192,332. (1914)*

FOREST CITY Mun. Utils.,Box 346, 50436, 515/582-3574, David Nolton, city admin., 1,410 met.; gen. 14,275 oil-fired (eng.), 258,300 kWh; pur. 50,523,200 kWh; rev. $2,346,068. (1939)*

FREDERICKSBURG, City of, 151 West Main St., 50630, 319/237-5725, Vernon Kerr. supt.; 490 met.; no gen.; pur. 26,714,490 kWh; rev. $1,060,960. (1915)

GLIDDEN, City of, Box 349, 51443, 712/659-3010, Grace A. Thornton, city clerk; 566 met.; no gen.; pur. 6,911,349 kWh; rev. $218,962. (1911)

GOWRIE Mun. Utils., Box 47, 1102 Main St., 50543, 515/352-3065, Donald G. Borgen, Supt.; 611 met.; gen. 3,600 kW oil (eng), 4,500 kWh, purchase 6,081,627 kWh; rev. $384,061. (1934)

GRAETTINGER Mun. Light Plants Box 178, 51342, 712/859-3844, Steve Helmke, supt.; 557 met.; gen. 845 kW oil-fired eng.; pur. 7,090,600 kWh; rev. $262,367. (1941)*

GRAFTON Elec. Dept., Box 27, 50440, 515/748-2981, Linda Bork, city clerk; no gen.; pur. 11,546,321 kwh; rev. $65,700.

GRAND JUNCTION Mun. Light & Water, 305 So. Eleventh St., 50107, 515/738-2285, F. M. Dittert, supt.; 536 met.; gen. 560 kW oil-fired eng., 7,300 kWh; pur. 4,786,248 kWh; rev. $296,161. (1932)

GREENFIELD Mun. Utils., 211 S. First St., Box 95, 50489, 515/743-2914, Robert Guikema, supt.; 1,368 met.; gen. 5,280 kW oil-fired; pur. 17,032,805 kWh; rev. $815,747. (1890)*

GRUNDY CENTER Mun. Light & Power, 506 Seventh St., 50638, 319/824-5208, Edward (Bob) Ayers, mgr.; 1,374 met.; gen. 5,750 kW eng., 45,300 kWh; pur. 21,496,000 kWh; rev. $1,177,846. (1941)*

GUTTENBERG, City of, 502 So. First St., 52052, 319/252-1161, James Webb, city mgr.; 1,190 met.; no gen. pur. 14,288,400 kWh; rev. $864,677.

HARLAN Mun. Utils., 405 Chatburn Ave., Box 71, 51537, 712/755-5182, F. James Kalal, gen. mgr.; 2,685 met.; gen. 5,200 kW coal (steam turbine); 5,100 kW oil eng., 8,027,355 kWh; pur. 47,765,221 kWh; rev. $2,339,215. (1891)*

HARTLEY Mun. Utils., 169 S. Central Ave., 51346, 712/728-2240, Dean E. Meyer, supt. pub. works; 902 met.; gen. 1,745 kW eng.; pur. 16,055,409 kWh; rev. $529,311. (1908)*

HAWARDEN, City of, 700 Seventh St., 51023, 712/552-2565, Russell Harris, supt. pub. wks; 1,528 met.; gen. 2,250 kW eng.; 6,000 kWh; pur. 21,931,197 kWh; rev. $716,096. (1894)*

HINTON Mun. Elec. System, Box 1023, 51024, 712/947-4129, William Farmer, supt.; 233 met.; no gen.; pur. 3,524,147 kWh; rev. $235,328. (1910)

HOPKINTON Mun. Utils., Box 129, 52237, 319/926-2480, John W. Westrich, supt.; 393 met.; gen. 2,036 kW oil-fired eng.; 2,600 kWh; pur. 7,317,600 kWh; rev. $281,329. (1937)

HUDSON Elec. Dept., Box 536, 50643, 319/988-3600, Edwin Andorf, supt.; 777 met.; no gen.; pur. 14 million kWh; rev. $792,502. (1910)

INDEPENDENCE Mun. Light Plant, 711 Seventh Ave. N.E., Box 754, 50644, 319/334-3880, Carl Mulvaney, plant supt.; 3,607 met.; gen. 15,174 kW, 1,224 kW oil(eng.), 13,950 kW dual-fuel,1,118,000 kWh; pur. 39,090,000 kWh; rev. $2,460,519. (1920)

INDIANOLA Mun. Utils., 111 S. Buxton, 50125; 515/961-5710, Roger Wood, gen. mgr.; 4,585 met.; gen. 20,600 kW comb. turbine, 14,000 kW dual-fuel, 386,800 kWh; pur. 61,882,000 kWh; rev. $2,913,900. (1891)*

KELLEY Mun. Dist. System, 1004 Hubbel St., Box 177, 50134, 515/769-2213, Cynthia L. Kaufman, city clerk; 115 met.; no gen.; pur. 915,300 kWh; rev. $49,394.

KEOSAUQUA Light Plant, Box 216, 52565, 319/293-3406, Donald Carruthers, supt.; 715 met.; gen. 1,040 kW eng., 121,700 kWh; pur. 245,386 kWh; rev. $357,059.

KIMBALLTON Mun. Light Plant, 51543, 712/773-3451, Norman Nordby, city clerk; 207 met.; gen. 400 kW eng.; pur. 2,207,026 kWh; rev. $84,691.*

LAKE MILLS Mun. Elec. Util., 201 S. Lake St., 50450, 515/592-2441, Donald F. Wirt, dir. of util.; 1,062 met.; gen. 11,500 kW (oil) eng., 130,000 kWh; pur. 18,709,442 kWh; rev. $880,770. (1932)*

LAKE PARK Mun. Utils., 209 So. Market, 51347, 712/832-3176, Merel Clark, supt.; 560 meg.; gen. 1,300 kW oil-fired eng., 4,300 kWh; pur. 6,985,100 kWh; rev. $260,684. (1947)*

LAKE VIEW Mun. Utils., 305 Main St., 51450, 713/657-2212, Eugene G. Meyers, dir. of oper., 1,271 met.; no gen.; pur. 17,029,153 kWh; rev. $549,722. (1915)

LAMONI Mun. Utils., 111 S. Chestnut St., 50140, 515/784-6911, Robert A. Colyer, supt.; 1,207 met.; gen. 5,223 kW 1,190 kW oil, 4,033 kW dual-fuel (eng)., 458,000 kWh; pur. 15,627,173 kWh; rev. $750,807. (1940)*

LA PORTE CITY Mun. Utils., 200 Main, 50651, 319/342-2053, Chuck Utley, supt., 1,347 met.; gen. 2,861 kW dual-fuel, 25,000 kWh; sales 11,081,635 kWh; rev. $529,809. (1935)

LARCHWOOD Mun. Elec., 51241, 712/477-2929, C. B. Egge, supt.; 300 met.; no gen., 3.5 million kWh; rev. $135,500.

LAURENS Mun. Light & Power Plant, 272 N. 3rd St., 50554, 712/845-4610, Michael D. Sangwin, supt.; 854 met.; gen. 4,626 kW, 3,126 kW coal (steam turbine), 1,500 kW eng., 269,625 kWh; pur. 15,793,532 kWh; rev. $14,269,948. (1949)*

LAWLER Elec. Dept., 52154, 515/238-3614, Paul V. Martin, city clerk; 278 met.; no gen.; pur. 2,635,200 kWh.; rev. $133,637.

LEHIGH, City of, Municipal Building, 50557, 515/359-2311, Franklin Boring, supt.; 317 met.; no gen.; pur. 2,048,979; rev. $119,821.

LENOX Municipal Util., Box 96, 50851, 515/333-2550, Leo H. (Barney) Miller, supt. of utils.; 737 met.; gen. 2,336 kW oil-fired, 8,200 kWh; pur. 11,854,863 kWh; rev. $316,512. (1931)*

LIVERMORE Lighting Dept., Box 16,50558, 515/379-1074, Noble Harris, supt.; 300 met.; no gen.

LONG GROVE Mun. Elec. Co., Box 210, 52756, 319/285-9743, David Vens, supt.; 181 met.; no gen.; pur. 2,022,000 kWh; rev. $110,639.

MANILLA Mun. Service, 166 Sixty Ave., 51454, 712/654-3952, James H. Macumber, supt.; 525 met.; gen. 1,130 kW oil-fired eng., 1,200 kWh; pur. 7,200,000 kWh; rev. $264, 045. (1915)*

MANNING Mun. Light 719 Third St.,Box 386, 51455, 712/653-3214, Gerald Beck, mgr.; 866 met.; gen. 1,610 kW oil-fired eng., 11,510 kWh; pur. 22,725,230 kWh; rev. $1,233,902. (1937)*

MAPLETON Mun. Elec. Plant, Front St., 51034, 712/882-1351, Tom LeFebvre, supt., or Mavis Skow, city clerk; 889 met.; no gen.; pur. 11 million kWh; rev. $756,181

MAQUOKETA Mun. Elec. System, 121 S. Olive St., 52060, 319/652-2484, Patrick Callahan, city mgr.; 2,446 met.; gen. 10,235 kW, 2,200 kW oil, 8,035 kW dual-fuel (eng)., 316,800 kWh; sales 29,480,668 kWh; rev. $1,610,464. (1919)*

MARATHON, City of, Attica St., Box 188, 50565, 712/289-2261, Robert P. Baker, supt.; 269 met.; no gen.; pur. 2,246,400 kWh; rev. $167,981. (1916)

McGREGOR Mun. Utils, 52157, 319/873-2258, Bob Henkes, chmn; bd. of trustees; 526 met.; gen. 2,013 kW eng., 53,550 kWh; pur. 6.6 million kWh; rev. $379,429. (1941)

MILFORD Mun. Utils., 907 Eleventh St., Box 121, 51351, 712/338-4376, Norman Parsons, mgr.; 1,061 met.; gen. 3,500 kW, 2,000 kW coal-fired steam, 1,500 kW dual-fuel, 6,662,693 kWh; pur. 17,623,430 kWh; rev. $542,903. (1935)*

MONTEZUMA Mun. Light & Power, 406 E. Washington, 50171, 515/623-5102, Don H. Fahlenkamp, supt.; 781 met.; gen. 6,438 kW, 2,188 kW oil, 4,250 kW dual-fuel (eng.), 137,939 kWh; pur. 14,328,000 kWh; rev. $757,397. (1939)*

MOUNT PLEASANT Utils., 509 N. Adams St., 52641, 319/385-2121, James Ritter, util. mgr.; 3,330 met.; gen. 10,500 kW coal, 1,500 kW diesel; pur. 2,768,227 kWh; rev. $35,897,845. (1897)

MUSCATINE Power & Water, 3205 Cedar St., Box 899, 52761, 319/263-2631, Clyde L. Bowen, gen. mgr.; 9,969 met.; gen. 283,500 kW coal (steam turbine). 749,065,115 kWh; pur. 52,798,000 kWh; rev. $26,445,369. (1922)*

NEOLA City of, Box 67, 51559, 712/485-2307, George Soppe, mgr.; approx. 297 met.; no gen.; rev. $154,694.

NEW HAMPTON Mun. Light Plant, 921 Canty Ave., 50659, 515/394-3002, Robert K. Kamrath, supt.; 1,873 met.; gen. 16,020 kW eng., 447,700 kWh; pur. 42,630,316 kWh; rev. $1,995,244. (1903)*

NEW LONDON Mun. Utils., 112 W. Main St., 52645, 319/367-5623, Orville B. Pence Jr., supt.; 1,325 met.; no gen.; pur. 12,196,800 kWh; rev. $700,530. (1909)

OGDEN Mun. Utils., Box 70, 50212, 515/275-2437, Daniel L. Wilson, supt.; 1,041 met.; gen. 3,900 kW eng., 113,600 kWh; pur. 10,526,000 kWh. (1930)*

ONAWA, City of, 914 Diamond, 51040, 712/423-1181, Everett Sorenson, supt. utils.; 1,535 met.; gen. 3,210 kW oil (eng.); pur. 24,301,426 kWh; rev. $1,504,933. (1896)*

ORANGE CITY Mun., 125 Central Ave., S. E., 51041, 712/737-4885, Allen Roos, mgr.; 2,110 met.; no gen.; pur. 38,266,695 kWh; rev. $1,714,910. (1921)*

ORIENT Mun. Utils., Box 116, 50858, 515/337-5711, Martin Wagner, supt.; 220 met.; no gen.

OSAGE Mun. Utils., 720 Chestnut St., Box 207, 50461, 515/732-3731, Weston D. Birdsall, gen. mgr.; 2,113 met.; gen. 11,000 kW dual-fuel (eng.), 2,084,800 kWh; pur. 24,473,648 kWh; rev. $1,305,337. (1941)*

PANORA Mun. Util. Elec., 102 N. W. 2nd, City Hall, 50216, 515/755-2164, V. L. Schieffer Jr., elec. supt.; 710 met.; no gen.; pur. 6 million kWh; rev. $350,000. (1921)

PATON Mun. Elec. Dept.,Box 48, 50217, 515/968-4271, Arthur Subbert, supt.; 160 met.; no gen.

PAULLINA Mun. Utils., 127 S. Main, 51046, 712/448-3428, Robert J. Alborn, city clerk; 697 met.; no gen.; pur. 8,161,802 kWh; rev. $341,482. (1919)*

PELLA Mun. Power & Light. 717 Main St., 50219, 515/628-2581, George Carson, supt., elec. oper., 3,829 met.; gen. 43,500 kW coal-fired (steam), 84,412,500 kWh; pur. 14,692,700 kWh; rev. $4,976,684. (1909)

POCAHONTAS Municipal Util., 14 Second Ave., N. W., 50574, 712/335-4841, Joe Frie; 1,126 met.; no gen.; pur. 15,696,000 kWh; rev. $965,875. (1912)*

PRESTON Mun. Light & Power, Box 37, 52069, 319/689-3081, Gary Driscoll, plant supt.; 512 met.; gen. 4,257 kW eng., 182,600 kWh; pur. 8.6 million kWh; rev. $400,684. (1939)

PRIMGHAR Mun. Utils., Box 39, 51245, 712/757-2435, Robert L. Mulder, supt.; 563 met.; gen. 1,580 kW eng.; pur. 7,183,634 kWh; rev. $325,192. (1939)*

READLYN Mun. Elec., Box 70, 50668, 319/279-3411, Keith Fehkether, mayor; 366 met.; no gen.; pur. 3,636,289 kWh, rev. $202,945.

REMSEN Mun. Utils., 205 Fulton St., 51050, 712/786-2136, Louis A. Huewe, supt.; 767 met.; gen. 1,440 kW dual-fuel eng.; pur. 10,295,880 kWh; rev. $331,279. (1933)*

RENWICK Mun. Light & Power Plant, Box 174, 50577, 515/824-3511, Galen Engstrom, supt.; 209 met.; gen. 483 kW diesel; pur. 2,792,082 kWh; rev. $149,341. (1928)

ROCKFORD Mun. Light Plant, 18 First St., So., 50468, 515/756-2215, Richard Graham, Supvr.; 480 met.; gen. 1,865 kW internal combustion and gas turbine; 5,620 kWh; pur. 4,317,000 kWh, rev. $268,767. (1935)

ROCK RAPIDS Utils., 301 S. Third Ave., 51246, 712/472-2511, William G. Tobin, mgr.; 1,389 met.; gen. 2,500 kW oil-fired, eng., 28,080 kWh; pur. 21,420,000 kWh; rev. $807,329.(1896)*

ROLAND Mun. Elec., Box 288, 50236, 515/388-4638, Bill Hinds, supt.; 482 met.; no gen.; rev. $295,102. (1911)

SABULA, City of, Box 331, 52070, 319/687-2420, L. Gifford, clerk; 362 met.; no gen.; pur. 2,779,000 kWh; rev. $99,269. (1965)

SANBORN Mun. Light Plant, 102 Main St., 51248, 712/729-3974, Allen Bonderman, gen. mgr.; 678 met.; gen. 880 kW oil (eng.), 560 kW dual-fuel (eng.), pur. 13,397,825 kWh; rev. $470,132.(1947)*

SERGEANT BLUFF, City of, Box 703, 51054, 712/943-4244, Maynard Kilpatrick; 950 met.; no gen.; rev. $928,340.

SEYMOUR Mun. Utils., Box 54, 52590, 515/898-2966, Steve Bjornson, utils. supt.; 542 met.; no gen.; sales 4,899,124 kWh; rev. $306,757.

SHELBY Mun. Elec. Util., Box 186, 51570, 712/544-2402, Lawrence Brown, supt.; 342 met.; no gen.; sales 4,591,998 kWh; rev. $137,248.*

SIBLEY Mun. 1109 Third Ave., 51249, 712/754-3454, Byron Lopau, supt.; 1,498 met.; gen. 2,500 kW steam, 2,070 kW eng.,8,842,130 kWh; pur. 21,750,729 kWh; rev. $1,057,584. (1915)*

SIOUX CENTER Mun. Utils, 337 N. Main Ave., 51250, 712/722-0761, Harold Schiebout, util. supt.; 1,751 met.; gen. 1,465 kW dual-fuel, (standby only), 11,200 kWh; pur. 39,593,523 kWh; rev. $1,481,299. (1949)*

SPENCER Mun. Utils., 712 N. Grand Ave., 51301, 712/262-3027, Neal Drefke, gen. mgr.; 5,315 met.; gen. 31,090 kW, 23,800 kW oil, 7,290 kW coal (steam turbine), 30,077,974 kWh; pur. 110,880,230 kWh; rev. $4,963,559. (1901)*

STANHOPE, City of, 50246, 515/826-3290, Edward Haman, supt.; 245 met.; no gen.; pur. 2,275,535 kWh; rev. $136,131.

STANTON Elec. Dist. System, Box 280, 51573, 712/829-2613, Larry Johnson, supt.; 313 met.; no gen.; pur. 5,829,060 kWh; rev. $139,025. (1937)

STATE CENTER Municipal,Box 668, 50247, 515/483-2590, Pat Stief; 827 met.; gen.550 kW oil (eng.), 5,122 kW dual-fuel, 111,100 kWh; pur. 11,437,056 kWh; rev. $656,507. (1899)

STORY CITY Mun. Elec. Util., 505 Market St., 50248, 515/733-4691, Gene R. Twedt, supt.; 2,922 met.; gen. 704 kW oil-fired, 8,316 kW dual-fuel, 482,900 kWh; pur. 21,674,532 kWh; rev. $1,219,416.(1904)*

STRATFORD Light & Power, Box 218, 50249, 515/838-2311, Geraldine Conklin, city clerk; 395 met.; no gen.; pur. 3,761,560 kWh; rev. $186,227. (1920)

STRAWBERRY POINT Mun. Light Plant, 111 Commercial, Box 279, 52076, 319/933-4482, Ewald Maker, supt.; 697 met.; gen. 2,467 kW dual-fuel eng.; pur. 6,550,000 kWh; rev. $376,977. (1928)

STUART Mun. Util., Box 370, 50250, 515/523-2915, William Gilliam, supt.; 898 met.; gen. 2,945 dual-fuel, 149,900 kWh; pur. 10,057,530 kWh; rev. $475,849. (1891)*

SUMNER Mun. Light Plant, 105 Wapsie, 50674, 319/578-5611, Robert Jergens, supt,; 1,099 met,; gen. 1,640 kW oil, 3,820 kW dual-fuel eng. (standby only); pur. 13,766,744 kWh; rev. $926,606. (1935)*

TENNANT Elec. Dept., 51574, 712/744-3483, Kenneth Turner, mayor; no gen.; 25 met.; rev. $22,833.

TIPTON City of, Municipal, 407 Lynn St., 52772, 319/886-6187, Robert E. Snavely, city coordinator; gen. 770 kW oil (eng.), 2,700 kW dual-fuel, 119,800 kWh; (1916)*

TRAER Mun. Utils., 649 Second St., 50675, 319/478-8760, Robert Engle, chmn.; 1,043 met.; gen. 3,637 kW dual-fuel, 675 kW oil, (eng.); 480.700 kWh; pur. 12,076,800 kWh; rev. $810,455. (1917)*

VILLISCA Mun. Power Plant, City Hall Bldg., 50864, 712/826-3192, Herbert A. Phillis, supt.; 979 met.; gen. 906 kW oil, 1,600 kW dual-fuel (eng.); 6,800 kWh; pur. 10,359,994 kWh; rev. $262,700. (1936)*

VINTON Mun. Elec.Util.,, Second Ave. and Second St., 52349, 319/472-3663, Marvill K. Mostrom, supt.; 2,353 met.; gen. 15,410 kW dual-fuel eng., 2,857,300 kWh; pur. 26,380,800 kWh; rev. $1,592,571. (est. 1913)

WALL LAKE, City of, Box 27, 51466, 712/664-2216, Virtus Pittman, councilman; 450 met.; no gen.; pur. 9,092,000 kWh; rev. $270,276. (1903)*

WAVERLY Mun. Elec. Util., 1500 W. Bremer Ave., 50677, 319/352-6251, Robert Morse, dir. of elec. utils.; 3,738 met.; gen. 16,690 kW, 2,600 kW diesel, 13,595 kW dual-fuel, 495 kW hydro, 71,844,190 kWh; pur. 71,827,500 kWh; rev. $4,276,469. (1904)*

WEBSTER CITY, City of, Mun. Elec., Mun. Bldg., 50595, 515/832-4271, Jerry Kent, city mgr., 4,241 met.; no gen. sales 79,812,792 kWh; rev. $4,478,709. (1890)*

WEST BEND Mun. Power Plant, 10 N. Broadway, Box 411, 50597, 515/887-3111; James E. Schuller, supt.; gen. 4,747 kW, dual-fuel, 300 kW oil-fired eng.; 515,500 kWh. (1915)*

WESTFIELD Elec. Dept., 51062, Box 5, 712/568-2631, Ronnie Burke, city clerk; 88 met.; no gen.; pur. 960,000 kWh, rev. $42,000.

WEST LIBERTY Mun., 101 W. 4th St., 52776, 319/627-2418, 1,250 met.; gen. 5,500 kW dual-fuel, 856 kW oil-fired eng., 681,200 kWh; pur. 42,323,400 kWh; rev. $1,943,247. (1897)

WEST POINT Mun. Lighting Dept., 52656, 319/837-6313, Richard Pietz, supt.; 607 met.; no gen.; rev. $322,449.

WHITTEMORE Mun. Power Plant, Box 116, 50598, 515/884-2631, Dean Zoet, supt.; 238 met.; gen. 2,203 kW internal combustion, 198,274 kWh; pur. 4,558,176 kWh; rev. $198,274.

WILTON Mun. Light & Power, 220 W. Third St., 52778, 319/732-2929, Rick J. Cayton, supt.; 1,241 met.; gen. 4,650 kW; 350 kW oil; 4,300 kW dual-fuel (eng.); 312,530 kWh; pur. 17,042,184 kWh; rev. $1,057,182. (1891)*

WINTERSET Mun. Utils., 321 N. First St., 50273, 515/462-2152, George C. Berry, supt.; 1,957 met.; gen. 8,480 kW, 4,480 kW dual-fuel eng., 236,000 kWh; pur. 26,329,456 kWh; rev. $1,579,349. (1895)*

WOODBINE Mun. Light and Power, 517 Walker St., 51579, 712/647-2340, Bruce Walters, supt.; 1,040 met.; gen. 1,580 kW eng., 63,475 kWh; pur. 9 million kWh; rev. $274,869.*

WOOLSTOCK Elec. Dept., 50599, Box 57, 515/839-5531, Hazel Brock, city clerk; 120 met.; no gen.

KANSAS

ALMA, City of, 326 Missouri, 66401, 913/765-3922; Max Kraus, supt., light plant; 473 met.; no gen.; pur. 4,900,600 kWh; rev. $329,805. (1938)

ALTAMOUNT, City of, Box 305, 67330, 316/784-5503, Denzil Davidson, utils. supt.,515 met.; no gen.; pur. 5.8 million kWh; rev. $346,300. (1934)

ANTHONY, City of,124 S Bluff, Box 504, 67003, 316/842-5960, Jack C. Scott, supt. of utils.; 1,955 met.; gen. 12,000 kW (eng.); 4,378,000 kWh; pur. 21,387,600 kWh; rev. $1,595,891. (1879)*

ARCADIA City of, Box 126, 66711, 316/638-4310, Mark Morris, supt.; 256 met.; no gen.; pur. 1,651,800 kWh; rev. $105,478.

ARMA, City of, 701 E. Washington, Box 829, 66712, 316/347-4125, James C. Jones, util. supt., 758 met.; no gen.; pur. 7,781,400 kWh; rev. $397,249.

ASHLAND, City of, Box 547, 67831, 316/635-2531, Alan R. Schweitzer, 721 met.; gen. 4,975 kW dual-fuel eng., 8,841,400 kWh; sales 8,124,568 kWh; rev. $522,291.(1909)

ATTICA, City of, 101 N. Main, 67009, 316/254-7216, Donald Bateman, gen. supt.; 450 met.; gen. 2,360 kW, 509,300 kWh; pur. 4.1 million kWh, rev. $229,134.

AUGUSTA Mun. Elec. Dept., Box 489, 67010, 316/775-2391, H.H. Blair, city mgr.; 3,238 met.; gen. 1,106 kW oil-fired, 22,636 kW dual-fuel, 5,031,300 kWh; pur. 41,667,100 kWh; rev. $2,658,000. (1911)

AXTELL, City of, 401 Maple, 66403, Clair Hill; 235 met.; no gen.; pur. 1,776,400 kWh; rev. $98,852.

BALDWIN CITY Mun. Light & Water Dept., 316 Elm, 66006, 913/594-6427, William Randell, supt.; 1,062 met.; gen. 6,112 kW eng., 10 million kWh; pur. none; rev. $391,000.

BELLEVILLE, City of, Box 280, 66935, 913/527-2288, Dick Ash, city mgr.; 1,619 met.; gen. 13,125 kW dual-fuel, 19,229,60 kWh; pur. none; rev. $1,132,004. (1923)*

BELOIT Mun. Power, 215 S. Chestnut, 67420, 913/738-5121, Daniel Moellenberndt, city admr.; 2,067 met.; gen. 19,900 kW eng., 36.3 million kWh; pur. 30,200 kWh; rev. $343,037. (1951)*

BLUE MOUND Mun. Dist. System, 66010, Lloyd Spillman, supt. light plant; 185 met.; no gen.; pur. 1.3 million kWh; rev. $62,926.

BRONSON Mun. Light & Power, 66716, 316/939-4578, Harold Johnson, supt.; 210 met.; no gen.; pur. 1.2 million kWh; rev. $22,800. (1926)

BURLINGAME Power & Light Dept., 101 E. Santa Fe, 66413, 913/654-3922, Norman Bloomquist, supt., 645 met.; gen. 4,630 gas and diesel internal comb., 5,178,329 kWh; rev. $398,507. (1902)

BURLINGTON Mun. Light & Power Dept., 301 Neosho St., 66413, 316/364-5575, Alfred Mann, elec. supt., 1,500 met.; gen. 3,620 kW tri-fuel, 767,620 kWh; pur. 19,088,000 kWh; rev.$1,220,200. (1935)

CAWKER CITY, City of Mun. Elec. Dept., 804 Locust St., Box 2, 64730, 913/781-4713, Delbert Wallace, city supt.; 433 met.; no gen.; pur. 3,801,600 kWh; rev. $298,832. (1913)

CENTRALIA Mun. Light System, Box 247, 66415, 913/857-3764, G.L. Luebbe, elec. supt.; 250 met.; no gen.; pur. 2.5 million kWh; rev. $200,000.

CHANUTE, City of, Mun. Elec. Dept., Box 907, 66720, 316/431-9306, Ronald Reed, dir. elec. util., 6,099 met.; gen. 22,060 kW, 16,500 kW steam, 1,750 kW oil, 4,000 kW dual-fuel, 12,841,300 kWh; pur. 79,883,500 kWh; rev. $4,828,659. (1903)*

CHAPMAN, City of, Box 321, 67431, James Murrison, lt. and water supt.; 565 met.; no gen.

CHETOPA, City of, Box 203, 67336, 316/236-7511, Lloyd T. McGill, city supvr.; 730 met.; no gen.; pur. 10.1 million kWh; rev. $353,000.

CIMARRON, City of, Box 467, 67835, 316/855-2322, Vernon Hanna, city supt.; 805 met.; no gen.; pur. 11,553,600 kWh; rev. $940,206.

CLAY CENTER, Mun. Elec. & Water, 427 Court St., Box 117, 67432, 913/632-2137, D. D. Dierking, supt. of util.; 3,490 met.; gen. 9,500 gas (steam turbine), 7,950 dual-fuel (eng.), 19,964,600; pur. 19,699,200 kWh; rev. $2,536,367. (1907)*

COATS, City of, Box 115, 67028, 316/893-2324, Larry Flory, utils. supt.; 103 met.; no gen.; pur. 580,114 kWh; rev. $34,010. (1920)

COFFEYVILLE Mun. Light & Power, 7th & Walnut, Box 498, 67337, 316/251-7000, ext. 239, M.A. Buckner, dir. of elec. utils.; 8,614 met.; gen. 80,050 kW steam, 21,307,400 kWh; pur. 127,716,800 kWh; rev. $9,076,422. (1901)*

COLBY Pub. Pwr., 585 N. Franklin, 67701, 913/462-3973, James D. Whitney, dir. of public power; 2,654 met.; gen. 17,360 kW dual-fuel, 2,420,000 kWh; pur. 40,573,106 kWh; rev. $2,463,440. (1910)*

DeSOTO, City of, 108 W. Second St., Box C, 66018, 913/585-1182, Eldon Brown, dir., pub. wks., 743 met.; no gen.; pur. 8,374,400 kWh; rev. $558,718.

DIGHTON Mun. Light & Water Dept., 147 E. Long St., 67839, 316/397-5541, Harry Smith, utils. supt.; 800 met.; no gen.; pur. 8,455,304 kWh; rev. $532,883.

ELLINWOOD, City of Power Plant, 201 W. 1st St., 67526, 316/564-2211; John Rapp, supt.; 1,326 met.; gen. 8,479 kW eng.; 2,853,200 kWh; pur. 12,451,200 kWh; rev. $1,154,357. (1948)

ELLIS, City of, W. 6th St., Box 27, 67637, 913/726-4741, Gene Schoenberger, city supt.; 840 met.; 2,188,600 kWh; pur. 8,085,900 kWh; rev. $707,337. (1928) (Ellis voted in April 1984 to sell to Midwest Energy, a rural electric cooperative in Hays, Kan., but the transfer has not been made yet.)

ELWOOD, City of, 6th & Kentucky, 66024, 913/365-6871, Paul Rounds, city admin.; 453 met.; no gen.; pur. 5,194,000 kWh; rev. $299,664.

ENTERPRISE, City of, Box 245, 67441, 913/934-2323, G. W. (Jude) Saip Jr., city supt.; 350 met.; no gen.; rev. $97,404.

ERIE Mun. Light & Power, 224 S. Main, Box 196, 66733, 316/244-3488, Charles Clines, power plant supt.; 725 met.; no gen.; pur. 7,828,000 kWh; rev. $488,527. (1915)*

EUDORA Mun. Elec. Dept., Seventh and Main, 66025, 913/542-2095, John Pinnick, supt.; 1,033 met.; no gen.; pur. 10.8 million kWh; rev. $566,800.

FREDONIA Mun. Power Plant, 314 N. Seventh St., 66736, 316/378-2404, Pat Flynn, util. supt.; 1,500 met.; gen. 7,200 kW dual-fuel eng.; 2,108,300 kWh; pur. 33,628,000 kWh; rev. $1,346,703. (1901)

GALVA, City of, 208 S. Main, Box 223, 67443, 316/654-3561, Vernon R. Koehn, city supt.; 342 met.; no gen.; pur. 2,823,900 kWh; rev. $172,619.

GARDEN CITY Mun., Box 499, 67846, 316/276-8263, Deane P. Wiley, city mgr.; 7,614 met.; no gen.; pur. 114,417,460 kWh; rev. $6,339,850.

GARDNER Mun. Elec. System; 112 S. Elma St., 66030, 913/884-7535, Richard McNett, supt.; 1,015 met.; no gen.; pur. 16,978,500 kWh; rev. $1,121,680.

GARNETT, City of, Mun. Elec., 131 W. Fifth, 66032, 913/448-5496, R. G. Doran, city mgr.; 1,833 met.; gen. 2,900 kW oil (eng.), 6,392 dual-fuel (eng.), 8,756,600 kWh; pur. 13,823,151 kWh; rev. $1,535,079.(1918)*

GIRARD Mun. Light & Water Plant, 100 S. Ozard, 66743, 316/724-8918, Jean M. Bolin, city clk., 1,564 met.; no gen. pur. 22.7 million kWh; rev. $1,101,669.

GLASCO, City of, 67445, 913/568-2705, W. LeRoy Wolf, util. supt.; 450 met.; no gen.; pur. 3.6 million kWh; rev. $221,349.

GLEN ELDER, City of, Box 55, 101 S. Market St., 67446, 913/545-3322, Geneva Winkel, city clerk; 316 met.; no gen.; pur. 2,926,176 kWh; rev. $209,821.

GOODLAND Mun. Power Plant, 17th and Cherry, 67735, 913/899-5200, Pete Walker, plant supt.; 2,500 met.; gen. 21,000 kW, 770 kW oil fired eng., 20,230 dual-fuel eng., 40,121,900 kWh, pur. none; rev. $2,071,556. (1937)

GREENSBURG Light Plant, 400 N. Main, 67054, 316/723-2691, Melvin Simmons, supt.; 1,040 met.; gen. 7,062 kW dual-fuel eng., 11,640,100 kWh, pur. none; rev. $800,189. (1911)

HAVEN Light, Water & Power, 118 S. Kansas Ave., 67543, 316/465-3618, Don R. Huston, maint. supv.; 535 met.; no gen.; pur. 7,468,000 kWh.

HERINGTON, City of, 715 S. Broadway, 67449, 913/258-2271, W. A. Wetmore, city mgr.; 1,557 met.; gen. 9,200 kW dual-fuel,eng., 3,358,500 kWh; pur. 17,301,600 kWh; rev. $1,210,077. (1888)*

HERNDON, City of, Box 98, 67739, 913/322-5341, Ronald Beims, Mayor; 172 met.; no gen.; pur. 1,294,400 kWh; rev. $11,539. (1937)

HILL CITY, City of, 205 N. Pomeroy, 67642, 913/674-3437, Florent Bellerive, city supvr.; 1,200 met.; gen. 7,265 kW dual-fuel eng., 12,537,000 kWh; pur. 2,309,400 kWh; rev. $826,885. (1900s)

HILLSBORO, City of, 116 E. Grand, 67063, 316/947-3162, R. James, Supt.; 1,355 met.; no gen.; pur. 13,975,200 kWh; rev. $741,567. (1930)

HOISINGTON Mun., Box 418, 67544, 316/653-4125, Thomas Milton DeArman III, city mgr.; 1,846 met.; gen. 14,580 kW,200 kW oil (eng.), 14,380 kW dual-fuel (eng.),6,964,200 kWh; pur. 14,837,490 kWh; rev. $1,495,455.(1940)

HOLTON Power Plant, 430 Penn. Ave., 66436, 913/364-3719, Lyle L. Lee, supt.; 2,300 met.; gen. 14,600 kW eng.; pur. 20,224,800 kWh; rev. $1,213,480. (1931)

HOLYROOD Light & Water Dept., 110 S. Main, 67450, Tom Randolph, 913/252-3652, supt.; 330 met.; no gen.; pur. 2.5 million kWh; rev. $183,774 (1918)

HORTON, City of, E. Fifteenth St., 66439, 913/486-3911, Cleo N. Coffman, supt.; 1,002 met.; gen. 3,000 kW dual-fuel eng., 46,600 kWh; pur. 10,417,600 kWh; rev. $652,667. (1912)

HUGOTON City Water & Light Dept., 114 E. Fifth St., Box 788, 67951, 316/544-8531, Everett Rowden, supt.; 1,679 met.; gen. 13,470 kW eng., 20.3 million kWh; pur. none; rev. $1,077,520. (1919)*

IOLA, City of, 2 West Jackson St., Box 308, 66749, 316/365-2771, Les Olm, city supt.; 4,216 met.; gen. 23,750 kW, 10,000 kW gas, 13,750 kW eng. (oil); 9,214,700 kWh; pur. 51,647,900 kWh; rev. $2,488,040. (1900)*

ISABEL City Elec. Dept., Box 97, City Hall, 67065, 316/739-4347, Carolyn Armstrong, city clerk; 80 met.; no gen.; pur. 827,600 kWh; rev. $38,226.

IUKA, City of, Box 127, 67066, 316/546-2215, Clyde Pipher, city clerk; 123 met.; no gen; pur. 1,550,000 kWh; rev. $122,402.

JETMORE, City of, Public Municipality, Box 8, 67854, 316/357-8344, Dean Hertel, supt., 580 met.; no gen.

JOHNSON Mun. Power Plant, Main St., Box 500, 67855, 316/492-2322, Rex McGowne, supt.; 649 met.; gen. 4,250 kW dual-fuel eng., 10,787,600 kWh; pur. 1,136,300 kWh. (1938)

KANSAS CITY Bd. of Pub. Utils., 700 Minnesota Ave., 66101, 913/281-8246, V. Eugene Miller, gen. mgr.; 72,828 met.; gen. 714,000 kW, 595,000 kW steam turbine, 119,000 kW gas comb. turbine, 2,388,591,000 kWh; pur. 69,267,000 kWh; rev. $122,022,686. (1929)*

KINGMAN Water and Light Dept., Box 168, 67068, 316/532-3111, Ben M. Payton, supt.; 1,800 met.; gen. 14,000 kW dual-fuel, 3,900,000 kWh; pur. none; rev. $1,650,000. (1913)*

KIOWA 67070, 316/825-4127, Carol Bloodworth, city admin.; 800 met.; no gen.; pur. 10.1 million kWh; rev. $652,500. (1976)

LA CROSSE, City of, 1119 Main, 67548, 913/222-2511, Dudley Schutte, city mgr.; 908 met.; gen. 9,670,100 kW dual-fuel, 9,670,100 kWh; pur. 366,000 kWh; rev. $729,868. (1906)

LA HARPE Water & Light Dept., Box 121, 66751, 316/496-2241, George Poffenbarger, supt., 289 met.; no gen.; pur. 1,538,247 kWh; rev. $92,669.

LAKIN Elec. Dept., Box 148, 67860, 316/355-6252, John Speer, city supt.; 933 met.; no gen.; pur. 9,727,200 kWh; rev. $679,234. (1915)

LARNED, Mun. Utils., Box 70, 67550, 316/285-2149, Ron Arnold, city mgr.; 2,609 met.; gen. 20,460 kW, 12,760 kW gas (steam turbine), 1,250 kW gas (comb. turbine), 6,450 kW dual-fuel (eng.), 12,627,362 kWh; pur. 26,350,800 kWh; rev. $2,156,983. (1916)*

LINCOLN Mun. Power Plant, 153 W. Lincoln, 67455, 913/524-4740, Dan Smith, supt.; 1,026 met.; gen. 11,000 kW dual-fuel (eng.), 10,954,100 kWh; sales 8,787,598 kWh; rev. $926,636. (1906)

LINDSBORG Water & Light, Box 70, 67456, 913/227-2421, Carrol W. Webber, Power Plant Supt.; 1,306 met.; gen. 6,000 kW dual-fuel eng.; 5,342,890 kWh; sales 14,615,557 kWh; rev. $1,092,348.

LUCAS City of, Elec. Dept., Box 308, 67648, 913/525-6425, Gary Ward, supt.; 326 met., no gen.; pur. 3,225,600 kWh; rev. $31,624.

LURAY, City of, 67649, 913/698-2309, Kurt Walker; 194 met.; no gen.; pur. 1,882,400 kWh; (1915)

MAHASKA City Elec. Dept., 66955, 913/245-3214, Roger Lambert, supt.; 80 met.; no gen.; pur. 483,000 kWh; rev. $21,565.

MANKATO, City of, Elec. Util., 202 E. Jefferson, Box 2, 66956, 913/378-3141, D. L. Hamilton, city admin.; 735 met.; no gen.; pur. 7,400,000 kWh; rev. $581,255. (1950)

MARION, City of, 203 N. Third, 66801, 316/382-3703, Junior Bredemeier, city supt.; 1,089 met.; no gen.; pur. 11,791,200 kWh; rev. $611,330.

McPHERSON Bd. of Pub. Utils., 400 E. Kansas, 67460, 316/241-0661, Donald E. Gerard, gen. mgr.; 6,824 met.; gen. 218,000 kW, 46,600 kW steam, 114,000 kW gas (comb. turbine), 56,400 kW oil (comb. turbine), 1,000 kW oil-fired eng., 85,265,000 kWh; pur. 370,210,000 kWh; rev. $12,898,121. (1909)*

MEADE, Municipal, 623 E. Carthage, 67864, 316/873-2091, Carrol Webber, city supt.; 977 met; gen.600 kW oil (eng.), 8,000 kW dual-fuel eng., 12,330,700 kWh; sales 10,046,900 kWh; rev. $853,986.(1910)

MINNEAPOLIS Light Plant, 110 Markley Ave., 67467, 913/392-2152, Leo Baker, supt.; 1,046 met.; gen. 8,174 kW dual-fuel, 2,322,350 kWh; pur. 11,357,150 kWh; rev. $804,366. (1921)

MONTEZUMA, City of, Box 37, 67867, 316/846-2264, Dwight Watson, city supt.; 436 met.; no gen.; pur. 5,841,600 kWh; rev. $335,812. (1921)

MORAN, City of, Box 396, 66755, 316/237-4301, James Cole, supt.; 370 met.; no gen.; pur. 3.7 million kWh; rev. $150,706. (1900)

MORRILL, City of, Box 146, 66515, 913/459-2231, Dale Gaston, util. supt., 179 met.; no gen.; pur. 1,153,800 kWh; rev. $8,061. (1927)

MOUNDRIDGE, City of, 216 S. Christian, 67107, 316/345-2661, Elmer Goering, city admin., 694 met.; no gen.; pur. 10,483,000 kWh; rev. $464,656. (1909)

MOUNT HOPE Mun. Elec., Box 56, 67108, Chris Rasmussen, city engr.; 324 met.; no gen.; pur. 4,012,000 kWh; rev. $208,204.

MULBERRY Mun. Light Plant, 66756, 316/764-3815, Frank Tersina, supt.; 333 met.; no gen.; 1.3 million kWh; rev. $100,000. (1915)

MULVANE, City of, 211 N. 2nd St., 67110, 316/777-4491, Gary Rambo, supt.; 1,795 met.; gen. 6,272 kW, 5,622 kW dual-fuel, 650 kW oil, 10,000 kWh; pur. 20,997,600, rev. $1,150,733. (1902)

MUSCOTAH, City of, 66058, 913/872-3536, Robert G. Myers, mayor; 113 met.; no gen.

NEODESHA Mun. Power Plant, West Main St., 66757, 316/325-2925, Toby Kemper, supt., power plant; 1,850 met.; gen. 8,150 kW dual-fuel eng., 11,554,700 kWh; pur. 15,720,100 kWh; rev. $1,374,153. (1912)

NETAWAKA Elec. Light System, 66515, Kenneth Keithline, city clerk; 76 met.; no gen.; pur. 661,200 kWh; rev. $35,687.

NORTON Mun. Light Plant, 301 E. Washington, 67654, 913/877-3355, Dennis McMullen, city supt.; 1,850 met.; gen. 11,000 kW eng., 22,656,000 kWh; sales 18,476,912 kWh; rev. $1,374,153. (1912)

OAKLEY, City of, 400 Price St., Box 116, 67748, 913/672-3401, Frank D. Salisbury, city supt.; 1,298 met.; gen. 8,220 kW, 7,805 kW dual-fuel, 415 kW oil, 6,103,000 kWh; pur. 11,095,956 kWh; rev. $1,088,542. (1910)*

OBERLIN, City of, 107 W. Commercial, 67749, 913/475-2933, Phyll Cramer, city supt.; 1,450 met.; gen. 7,175 kW eng., 725,200 kWh; pur. 7,332,004 kWh; rev. $844,592. (early 1900s.)

OSAGE CITY Mun. Light Plant, Fifth and Main Sts., 66523, 913/528-1851; Elaine Needham, city admin.; 1,523 met.; gen. 7,155 kW eng., 15.2 million kWh; pur. none; rev. $730,000.

OSAWATOMIE, City of,Power Plant, Box 37, 66064, 913/755-4138, Bill J. Kellum, dir. of utils.; gen. 400 kW oil (eng.),6,600 kW dual-fuel eng.;853,730 kWh; pur. 20,884,500 kWh; rev. $1,733,431.*

OSBORNE, City of, 133 W. Main St., 67473, 913/346-5611, Norman Christie, plant supt.; 1,110 met.; gen. 6,840 kW dual-fuel, 10,492,600 kWh; pur. 2,340,000 kWh; rev. $840,291.

OTTAWA Power Plant, City Hall, Fourth and Walnut, 66067, 913/242-2190, Jack E. Davis, dir. utils.; 5,222 met.; gen. 35,050 kW, 4,000 kW oil & gas, 19,250 kW dual-fuel, 11,800 kW comb. cycle, 10,929,620 kWh; pur. 65,081,100 kWh; rev. $5,149,066. (1906)*

OXFORD Mun. Elec. Dept., Box 337, 67119, 316/455-2223, T. L. O'Hearn, supt.; 612 met.; no gen.; pur. 7,557,600 kWh; rev. $347,794.

POMONA, City of, Box 67, 66076, 913/566-3522, Carl E. Waltman, util. supt.; 475 met.; no gen.; pur. 4,149,800 kWh; rev. $273,590. (1914)

PRATT, City of, Elec. Dept., 321 W. 10th St., 67124, 316/672-2022, Arlyn Bradford, supt.; 3,860 met.; gen. 32,500 kW, 23,500 kW steam (gas), 9,000 kW steam (oil), 55,260,200 kWh; pur. 5,000,000 kWh; rev. $4,026,192. (1910)*

PRESCOTT City Elec. Dept., 66767, 913/471-4521, Leonard Fyock, city clerk; 153 met.; no gen. (1921).

RADIUM, City of, 67571, 316/982-4695, John Paden, city clerk; 34 met.; no gen.; pur. 47,843 kWh; rev. $30,141.

ROBINSON, City of, 120 Parsons St., 66532, 913/544-6850, Loren Davenport, mayor; 152 met.; no gen.; pur. 1,396,200 kWh.

RUSSELL, City of, 135 W. Eighth, 67665, 913/483-6311, Earl Homewood, elec. util. dir.; 3,387 met.; gen. 5,000 kW oil-fired 18,143 kW dual-fuel eng., 63,424,600 kWh; sales 54,945,512 kWh; rev. $2,917,729. (1910)

SABETHA Mun. Light Dept., 66534, Royal Kimmel, admin.; 1,414 met.; total gen. 11,562 kW; pur. none; rev. $598,512.

ST. FRANCIS Mun. Water & Light, Box 517, 67756, 913/332-3031, Bernard C. Roelfs, city supt.; 980 met.; gen. 5,000 kW gas, 3,060,640 kWh; pur. 6,854,000 kWh; rev. $777,678. (1914)

ST. JOHN, City of, Box 367 67576, 316/549-3800, William D. Kirkpatrick, supv. of services; 1,085 met.; gen. 5,442 kW dual-fuel, 1,300,100 kWh; pur. 8,061,800 kWh; rev. $697,807. (1910)

ST. MARY'S Mun. Light & Water Dept., 412 W. Bertrand Ave., 66536, 913/437-2311, Henry Beseau, city mgr.; 800 met.; no gen.; pur. 10,689,600 kWh; rev. $643,203. (1908)

SAVONBURG Elec. Light Dept., 66772, Don Ellison, city clerk; 45 met.; no gen.; pur. 311,200 kWh; rev. $14,000.

SCRANTON, City of, Box 96, 66537, 913/793-2414, Bernard Lee, mayor; 292 met.; no gen.; pur. 2,717,400 kWh; rev. $171,690.

SENECA City Elec., Box 40, 66538, 913/336-3537, Frank Rusche, elec. supt.; 1,189 met.; no gen.; pur. 15 million kWh; rev. $504,366. (1902)

SEVERANCE Elec. Dept., 66081, 913/359-6694, Leo Zeltner, city clerk; 55 met.; no gen.; pur. 281,000 kWh; rev. $14,991.

SEWARD Elec. Dept., 67577, 316/458-5731, Gail Daly, city clerk; 44 met.; no gen.; pur. 342,000 kWh.

SHARON SPRINGS, City of, Box 490, 67758, 913/852-4232, Norman L. (Pete) Sharp, city supt.; 626 met.; no gen.; pur. 4,689,900 kWh; rev. $521,147. (1918)*

STAFFORD Mun. Power Plant, 519 S. Boston, 67578, 316/234-5561, John C. Jones chief engr.; 926 met.; gen. 5,051 kW dual-fuel, 1,726,600 kWh; pur. 7,462,400 kWh; rev. $674,298.

STERLING, City of, 114 North Broadway, Box 287, 67579, 316/278-3411, Randy Wetmore, city mgr.; 894 met.; gen. 5,840 kW eng., 13,076,440 kWh; pur. 9,124,800 kWh; rev. $733,485. (1916)

STOCKTON Mun. Power Plant, box 512, 67669, 913/425-6703, Rich Nienstedt, city mgr.; 981 met.; gen. 6,200 kW dual-fuel; sales 9,061,680 kWh; rev. $714,960. (1908)

SUMMERFIELD Water & Elec. Dept., 66541, Olynn Larimore, mayor, 125 met. no gen.

TIFTON, City of, Main St., 67485, 913/373-4135, Virgil Jeardoe, supt.; 145 met.; no gen.; pur. 1.4 million kWh; rev. $120,000.

TORONTO Mun. Light Plant, Box 235, 66777, 316/637-2605, Clyde Boone,,supt.; 273 met.; no gen.; pur. 1,801,600 kWh; rev. $113,321.

TROY, City of, Box 506, 137 W. Walnut, 913/985-2265, 66087, Clarence Blake, mayor; 640 met.; no gen.; pur. 5,191,200 kWh; rev. $336,854. (1911)

UDALL Water & Light Dept., 109 N. Clark St., 67146, 316/782-3512, Corbett Wilson, supt.; 325 met.; no gen.; pur. 3,451,200 kWh; rev. $129,04[illegible]. (1939)

VERMILLION, City of, 66544, 913/382-6224, Steven Evans, elec. supt.; 103 met.; no gen.

WAMEGO Light & Water, Box 86, 66547, 913/456-9119, Lyle H. Dresher, city mgr.; 1,581 met.; gen. 8,310 kW dual-fuel eng., 8,396,383 kWh; pur. 12,894,600 kWh; rev. $1,097,591. (1908)*

WASHINGTON Mun. Power Plant, Park Road, Box 296, 66968, 913/325-2231, Ivan W. Hinkle, power plant supvr.; 842 met.; gen. 6,861 kW dual-fuel, 8,857,000 kWh; pur. none; rev. $589,483. (1938)

WATERVILLE Mun. Light Plant, 66548, 913/785-2367, A. C. Tryon, util. supt.; 410 met.; no gen.; pur. 3.6 million kWh; rev. $134,287.

WATHENA Mun. Elec. Lighting System, 206 St. Joseph St., 66090, 913/989-4711, Mac McMullen, supt.; 600 met.;no gen., rev. $466,456.

WEBBER Elec. Dept., 66970, 913/753-4401, Glen Bailey, mayor.

WELLINGTON, City of, Municipal, 317 S. Washington, 67152, 316/326-3631, Craig Hubler, city mgr.; 4,159 met.; gen. 21,000 kW gas-oil, 1,000 kW dual-fuel eng., 11,341,100 kWh; pur. 66,925,000 kWh; rev. $4,013,363. (1902)

WINFIELD, City of, Elec. Util., Box 646, 67156, 316/221-4891, John W. Elder, dir. of utils.; 7,456 met.; gen. 55,750 kW, 44,500 kW gas, 11,250 gas (comb. turbine), 18,673,600 kWh; pur. 50,809,400 kWh; rev. $7,799,214. (1904)*

KENTUCKY

(Systems designated "TVA" are distributors of Tennessee Valley Authority power and purchase all of their power from TVA.)

BARBOURVILLE Water & Elec. Co., Box 651, 40906, 606/546-3187, Randall Young, gen. mgr.; 3,154 met.; no gen.; pur. 52,080,000 kWh; rev. $2,549,506. (1938)

BARDSTOWN, City of, Box 368, 40004, 502/348-5947, Larry Hamilton, city engr.; 2,580 met.; no gen.; pur. 67,004,200 kWh; rev. $3,579,595.*

BARDWELL City Utils., Box 277, 42023, 502/628-3833, Donald M. Terry, mgr.; 547 met.; no gen.; pur. 5,907,132 kWh; rev. $360,393. (1941)

BENHAM City Utils., City Hall, 40807, Malcolm Barr Sr., chmn., power bd.; 320 met.; rev. $190,000.

BENTON Elec. System, Box 124, 42025, 502/527-3666 or 527-3651, Jim Owens, mgr.; 2,073 met.; pur. 52,056,955 kWh; rev. $2,536,812. (TVA) (1945)*

BEREA College, CPO 2337, 40404, 606/986-4611, Donald Bewley, util. adm.; 3,435 met.; pur. 76,012,000 kWh; rev. $3,520,477 (est. 1891)*

BOWLING GREEN Mun. Utils., Box 478, 42101, 502/782-1200, Eddie Beck, gen. mgr.; 17,899 met.; pur. 558,724,181 kWh; rev. $25,396,105. (TVA) (1942)*

CORBIN City Util. Comm., 901 S. Main St., 40701, 606/528-4026, George P. Rains, gen. mgr.; 3,828 met.; no gen.; pur. 58.5 million kWh; rev. $1,957,391.

FALMOUTH City Utils., 41040, 606/654-6937, Pete Lawson, supt.; no gen.; rev. $450,000.

FRANKFORT Elec. and Water Plant Bd., 315 W. Second St., 40601, 502/223-3401, John C. Wagner, gen. mgr.; 15,704 met.; no gen.; pur. 366,210,566 kWh; rev. $18,236,802. (1943)*

FRANKLIN Elec. Plant Bd., Box 349, 42134, 502/586-4441, Bill Austin, supt.; 3,850 met.; pur. 153,558,458 kWh; rev. $6,900,667 (TVA) (1943)*

FULTON Elec. System, 101 Nelson Tripp Place, Box 130, 42041, 502/472-1362, Billy Moss, mgr.; 1,775 met.; pur. 39,876,000 kWh.; rev. $1,899,445.(1962)

GLASGOW Elec. Plant Bd., 100 Mallory Drive, 42141, 502/651-8341, William J. Ray, gen. mgr.; 5,676 met.; no gen.; pur. 239,101,487 kWh; rev. $11,148,885. (TVA) (1962)*

HENDERSON Mun. Power & Light, Box 8, 42420, 502/826-2726, Bill L. Perry, gen. mgr.; 10,184 met.; gen. 388,000 kW, 386,000 kW coal, 2,000 kW dual-fuel, 320,569,700 kWh; pur. 912,000 kWh; rev. $11,327,413. (1897)*

HICKMAN Elec., Box 228, 42050, 502/236-3951, James Eakes, mgr.; 1,380 met.; pur. 19.4 million kWh; rev. $1,058,382. (TVA) (1970)*

HOPKINSVILLE Elec. Plant Bd., Box 544, 42240, 502/887-4212, W. Howell Hightower supt.; 12,100 met.; no gen.; pur. 341,403,318 kWh; rev. $15,273,621. (TVA) (1942)*

MADISONVILLE Mun. Utils., 37 E. Center St., 42431, 502/821-4522, J. T. Tarpley, util. supt.; 7,735 met.; no gen.; pur. 188,598,300 kWh.; rev. $10,905,970. (TVA) (1922)

MAYFIELD Elec. & Water Systems, 301 E. Broadway, 42066, 502/247-4661, James R. Gooch, gen. supt.; 5,639 met.; pur. 121,997,388 kWh; rev. $5,870,524. (TVA) (1942)*

MONTICELLO, City of, Elec. Plant Bd., Box 657, 42633, 606/348-8102, James H. McCune, supt.; 3,270 met.; pur. 62,691,635 kWh; rev. $2,904,114. (TVA) (1960)*

MURRAY Elec. System, Box 1095, 42071, 502/753-5312, Ron Underwood, supt.; 5,852 met.; pur. 174.7 million kWh; rev. $7,937,265. (TVA) (1942)*

NICHOLASVILLE, City of, Elec. Dept., 517 N. Main St., Box 158, 40356, 606/885-9473, David House, mgr.; 4,000 met.; no gen.; pur. 64,800,000 kWh; rev. $2,100,000

OLIVE HILL, City of, Mun. Power, Box 460, 41164, 606/286-2192 Alice Fielding, util. clerk; 1,190 met.; no gen.; rev. $575,723.

OWENSBORO Mun. Utils., 115 E. 4th St., 42301, 502/926-3200, John P. Pace, gen. mgr.; 24,437 met.; gen. 415,000 kW coal; sales 592,300,546 kWh; rev. $21,017,828. (1900)*

PADUCAH Power System, 1400 Broadway, Box 180, 42001, 502/442-2711, W. L. Borgerding, gen. mgr.; 20,068 met.; pur. 424,955,921 kWh; rev. $20,804,026. (TVA) (1961)*

PARIS, City of, 800 Pleasant St., 40361, 606/987-2630, Ronald K. Bailey, dir. of elec. utils.; 2,164 met.; gen. 11,000 kW oil (eng.), 176,400 kWh; rev. $1,195,729. (1931)*

PRINCETON Elec. Plant Bd., 304 Legion Dr., Box 608, 42445, 502/365-2031, Walter R. Smith, supt.; 3,766 met.; no gen.; pur. 61.9 million kWh; rev. $3,215,714. (TVA) (1961)*

PROVIDENCE Mun. Utils., North Willow St., Box 128, 42450, 502/667-5463, James A. Gooch Jr., mayor; 1,958 met.; no gen.; pur. 24,480,000 kWh; rev. $932,973. (1921)

RUSSELLVILLE, Elec. Plant Bd., Box 208, 42276, 502/726-2466, George M. Wheeler, supt.; 3,780 met.; pur. 96,607,505 kWh; rev. $4,483,611. (TVA) (1942)*

VANCEBURG Elec. System, 611 Front St., 41179, 606/796-2641, Donald Burton, supt.; 2,709 met.; 70,260 kW hydro, 245,600,000 kWh; no gen.; pur. 2,802,000 kWh; rev. $11,272,416. (1939)*

WILLIAMSTOWN City Utils., 400 N. Main St., 41097, 606/824-3352, Jeffrey Clemons, asst. supt.; 1,297 met.; gen. 70,260 kW hydro, pur. 2,802,000 kWh; rev. $11,272,476. (1925)

LOUISIANA

ABBEVILLE Water & Light Plant, 717 Veteran Memorial Drive, 70510, Joseph E. Vise, supt.; 8,700 met.; gen. 108,500 kW, 80,600 kW gas, 14,300 kW dual-fuel, 10,000 kW gas (comb. turbine), 3,600 kW gas eng., 422,154,117 kWh; pur. 369,000,000 kWh; rev. $15,571,000. (1898)

ALEXANDRIA Utilities Division, City Hall, Box 71, 71301, 318/473-1100, Champ Baker, dir. of utils.; 20,000 met.; gen. 175 kW gas steam, 424,487,000 kWh; pur. 91,306,000 kWh; rev. $26,107,000. (1907)

BOYCE Mun. Water & Light Plant, 71409, 318/793-2175, Donald Guagnoli, supt.; 800 met.; no gen.

ERATH, Town of, 115 W. Edwards, 70533, 318/937-8140; Melinda Simon; 781 met.; no gen.; pur. 13,922,000 kWh; rev. $569,472.

GUEYDAN Mun. Plant, 600 Main St., 70542, 318/536-9415, J. Roy Guidry, supt.; 748 met.; no gen.; pur. 14,255,000 kWh; rev. $668,954.

HOUMA, Terrebonne Parish Consolidated Government, Box 6097, 70361, 504/868-5050, Wilson L. Maloz, dir. utils.; 8,789 met.; gen. 97,270 kW, 80,700 kW gas, 16,500 kW dual-fuel, 219,228,647 kWh; sales 180,170,421; rev. $14,890,738. (1898)*

JONESVILLE Power & Light Dept., Box 428, 71343, 318/339-2051, Sims Nichols, supt.; 1,100 met.; no gen.; pur. 30 million kWh.

KAPLAN Mun. Water & Light Plant, 511 Cushing Ave., 70548, 318/643-8628, Ravis Broussard, supt.;

LAFAYETTE Utils. System, Box 4017-C, 70502, 318/261-8818, Louie Ervin, assoc. dir.; 34,222 met.; gen. 330,250 kW steam turbine, 240,597,100 kWh; pur. 46,678,000 kWh; rev. $76,934,965. (1897)*

MINDEN Light & Water Dept., Box 580, 71055, 318/377-2144, Gordon Bartage, supt.; 6,125 met.; gen. 36,000 kW, 25,000 kW steam, 11,000 kW dual-fuel, 74,421,000 kWh; pur. 35,916,000 kWh; rev. $6,498,932. (1920)

MORGAN CITY Mun. Power Plant, Box 1218, 70380, 504/385-1770, Max Albritton, supt.; 6,800 met.; gen. 70,000 kW, 62,000 kW steam, 8,000 kW eng., 133,000,000 kWh; pur. 57,900,000 kWh; rev. $3,940,000. (1934)

NATCHITOCHES, City of, Box 37, 71457, 318/352-2901, Robert J. Tynes, dir. utils.; 6,085 met.; gen. 53,200 kW, 43,500 kW steam, 9,700 kW eng.; pur. 62,586,000 kWh. (1901)

NEW ROADS Mun. Light & Water Dept., 237 W. Main St., 70760, 504/638-8047, Roy E. Davis, supt.; 1,961 met.; gen. 9,500 kW dual-fuel eng., 7,333,000 kWh; pur. 22,962,000 kWh. (1903)

OPELOUSAS Elec. & Water System, Box 712, 70570, 318/942-6997, Tim Boyd, supt. (Leased July 1, 1981, for 10 years to Southwest Louisiana Electric Corp.) (1930)

LOUISIANA
(continued)

PLAQUEMINE City Light & Water Plant, City Hall, 70764, 504/687-4796, Max Albritton, util. supt.; 4,500 met.; gen. 44,000 kW gas, 3,000 kW oil-fired, 10 million kWh; pur. 65 million kWh; rev. $7,780,000. (1949)* 4

RAYNE Mun. Power Plant, 201 3rd St., Box 69, 70578, 318/334-5870, Pierre Gary, supt.; 3,725 met.; no gen.; pur. 61,386,000 kWh; rev. $3,149,550. (1903) 4

RUSTON, City of, Steam Elec. Gen. Plant, Box 280, 71270, 318/255-1316, William Zack Spivey, supt. of utils.; 6,864 met.; gen. 81,001 kW gas (steam turbine), 103,151,250 kWh; pur. 165,748,000 kWh; rev. $13,482,701. (1920)* 4

SABINE RIVER POWER AUTHORITY, Box 94245, Baton Rouge 70804-9245, 504/342-8043, David Smith, atty., 3 met. (All output sold to private power companies.) 4

ST. MARTINVILLE, City of, 121 New Market St., 70582; Wilson Pose, supt.; 2,654 met.; pur. 39,010,000 kWh; rev. $1,928,125. 4

VIDALIA, City of, Box 2010, 71373, 318/336-5206, Sam Randazzo, Mayor,; 2,278 met.; no gen.; pur. 43,679,000 kWh; rev. $2,484,018. (1905)* 4

VINTON, Town of, 1200 Horridge St., 70668, 318/589-7453, E. L. Bahnsen, supt. pub. works; 1,618 met.; no gen.; pur. 23,199,000 kWh; rev. $1,434,635. (1910)* 4

WELSH, Town of, Box 786, 70591, 318/734-2231, Robert J. Louviere, supt. pub. works; 1,546 met.; no gen.; pur. 26,339,000 kWh; rev. $1,041,205. (1926)* 4

WINNFIELD, City of, Utils. Dept., Box 312, 71483, 318/628-4452, J. D. Jones, elec. supt.; 3,053 met.; no gen.; pur. 59,892,000 kWh; rev. $1,526,043. (1945) 4

MAINE

HOULTON Water Co., 21 Bangor St., Box 726, 04730, 207/532-2259 or 2250, James F. McPartland, pres.; 4,318 met.; no gen.; pur. 70,600,000 kWh; rev. $3,701,957. (1908)* 4

KENNEBUNK Light & Power Dist., 36 Water St., 04043, 207/985-3311, Chester F. Oiler, gen. mgr.; 3,302 met.,no gen.; pur. 53,389,000; rev. $2,987,072. (1893) 4

LEWISTON City of, Island Ave., 04240, 207/782-8511, Denis R. Caron, elec, supt.; (no residential meters; facility used only for water pumping and street lighting;) gen. 750 kW hydro, 5.3 million kWh. Municipal use only. 2

LUBEC Water & Elec. Dist., 24 Water St., 04652, 207/733-5526, Robert B. Miller, mgr.; 1,164, met.; no gen.; pur. 8,438,400 kWh; rev. $640,629. (1951)* 4

MADISON Elec. Works, 26 Weston Ave., 04950, 207/696-4401, George D. Stoutanyer, supt.; 1,984 met.; gen. 375 kW hydro, 1,467,400 kWh; pur. 20,148,000 kWh; rev. $1,302,966. (1897) 4

MATINICUS PLANTATION, Matinicus, 04851, 207/366-3870, Betsy Burr, clerk; 100 met.; gen. 165 kW oil-fired eng. (1976) 4

VAN BUREN Light & Power Dist., 67 Main St., 04785, 207/868-3321, Louis Morneaulp, mgr.; 1,500 met.; no gen.; pur. 12 million kWh; rev. $900,000. (1917) 4

MARYLAND

BERLIN, Town of, 10 Williams St., 21811, 301/641-2770, Ronald L. Bireley, adm. dir.; 1,250 met.; gen. 3,592 kW, 4.8 million kWh; pur. 21.5; rev. $1,686,722. (1919)* 3

EASTON Utils. Comm., 11 S. Harrison St. 21601, 301/822-6110, Roger C. Judd, gen. mgr. 5,724 met.; gen. 29,350 kW oil(eng.), 17,860 dual-fuel, 600 kW (other), 77,817,000 kWh; pur. 60,658,000 kWh; rev. $8,904,795. (1914)* 4

HAGERSTOWN Mun. Elec. Light Plant, 600 S. Cannon Ave., 21740, 301/790-2600, Kenneth L. Alexander, actg. mgr.; 17,001 met.; gen. 30,000 kW oil (steam), 1,000 kW oil (eng.), 4,000 kWh; pur. 229,815,000 kWh; rev. $10,730,819.* 4

ST. MICHAELS, (leased to Delmarva Power & Light Co.)

THURMONT Mun. Light, 10 Frederick Rd., 21788, 301/271-7313, Marion Wm. Rice, supt. pub. wks.; 1,600 met.; no gen.; pur. 32.3 million kWh; rev. $900,100. (1910) 2

WILLIAMSPORT Elec. Light Plant, 21795, 301/223-7711, M. Lee Draper, supt.; 800 met.; no gen.; pur. 12.2 million kWh; rev. $606,258. 2

MASSACHUSETTS

ASHBURNHAM Mun. Light Plant, 86 Central St., 01430, 617/827-4423, Robert W. Gould, mgr.; 2,097 met.; no gen.; pur. 16,596,429 kWh; rev. $1,250,489. (1907) 2

BELMONT Mun. Light Dept., 450 Concord Ave., 02178, 617/484-2780, Kenneth L. Conroy, mgr.; 10,444 met.; no gen.; pur. 95,429,760 kWh; rev. $6,954,036. (1898)* 4

BOYLSTON, Town of, Mun. Light Dept., Sanatorium Rd., 01505, 617/869-2626, Edward H. Kimball, mgr.; 1,407 met.; no gen.; pur. 20,969,600 kWh; rev. $1,454,868. (1912)* 4

BRAINTREE Elec. Light Dept., 44 Allen St., 02184, 617/848-1130, Donald H. Newton, mgr.; 12,397 met.; gen. 98,000 kW oil (comb. cycle), 5,000 kW oil (eng.); 22,539,000 kWh; pur. 311,994,754 kWh; rev. $23,261,621. (1892)* 4

CHESTER Mun. Light Dept., Middlefield St., Box 307, 01011, 413/354-7811, Robert Wyman, comm. chrm.; 416 met.; no gen.; pur. 5,834,560 kWh; rev. $325,699. (1926) 3

CHICOPEE Mun. Light Plant, 725 Front St. 01021, 413/598-8311, Herve L. Plasse, mgr.; 21,964 met.; gen. 8,250 kW oil-fired; 1,090,800 kWh; pur. 303,501,568 kWh; rev. $20,248,041. (1894)* 4

CONCORD Mun. Light Plant, 135 Keyes Rd., 01742, 617/369-2500, John R. O'Neil, supt.; 6,398 met.; no gen.; pur. 123,228,291 kWh; rev. $9,121,654. (1905)* 4

DANVERS Town of, Elec. Div., 2 Burroughs St., 01923, 617/774-0005, Michael Madore, supt.; 9,605 met.; no gen.; pur. 224,762,942 kWh; rev. $18,843,385. (1889)* 4

GEORGETOWN Mun. Light Dept., Moulton and W. Main Sts., 01833, 617/352-8611, James E. Hazen, mgr.; 2,647 met.; no gen.; pur. 28,085,962 kWh; rev. $2,115,185. (1912)* 3

GROTON Elec. Light Dept., Station Ave., 01450, 617/448-6655, Roger H. Beeltje, mgr.; 2,935 met.; no gen.; pur. 31,137,130 kWh; rev. $2,560,017. (1909)* 4

GROVELAND Mun. Light Dept., 23 School St., 01834, 617/372-1671, Gerald E. Hill, mgr.; 1,775 met.; no gen.; pur. 18,638,244 kWh; rev. $1,345,496. (1907)* 4

HINGHAM Mun. Light Plant, 19 Elm St., 02043, 617/749-0134, Joseph Spadea Jr., mgr.; 8,420 met.; no gen.; pur. 121,317,660 kWh; rev. $9,237,011. (1894)* 4

HOLDEN Mun. Light Dept.,94 Reservoir St., 01520, 617/829-4719, Neil E. Murray, mgr.; 5,270 met.; no gen.; pur. 77,400,926 kWh; rev. $5,663,822. (1912) 4

HOLYOKE Gas & Elec. Dept., 70 Suffolk St., 01040, 413/536-9300, George F. Leary, mgr.; 17,792 met.; gen. 36,400 kW, 24,800 kW oil or gas, 9,000 kW oil turbine, 2,680 kW hydro, 15,070,000 kWh; pur. 238,502,500 kWh; rev. $19,206,879. (1902)* 4

HUDSON Light and Power Dept., 49 Forest Ave., 01749, 617/568-8736, Horst Huehmer, mgr.; 8,210 met.; gen. 20,600 kW; 4,000 kW oil (eng.), 16,600 kW dual-fuel, 21,882,632 kWh; pur. 141,226,803 kWh; rev. $9,670,486. (1897)* 3

HULL Mun. Light, 15 Edgewater Rd., 02045, 617/925-0051, Philip Ternullo, mgr.; 4,951 met.; no gen.; pur. 61,188,777 kWh; rev. $3,160,117. (1894)* 4

IPSWICH, Elec. Dept., 222 High St., 01938, 617/356-4331, Donald R. Stone, mgr.; 5,110 met.; gen. 9,309 kW eng.; 4,965,040 kWh; pur. 66,808,600 kWh; rev. $4,997,284. (1904)* 3

LITTLETON Elec. Light & Water Dept., Whitcomb Ave., 01460, 617/486-3104, Curtis J. Lanciani, gen. mgr.; 4,476 met.; pur. 81,196,706 kWh rev. $5,665,416. (1912)* 4

MANSFIELD Mun. Elec. Dept., 50 West St., 02048, 617/339-7011, John Larch, mgr.; 5,145 met.; no gen.; pur. 152,413,937 kWh; rev. $10,888,327. (1903)*

MARBLEHEAD Mun. Light Dept., 80 Commercial St., Box 369, 01945, 617/631-0240, Richard L. Bailey, gen. mgr.; 9,204 met.; gen. 6,636 kW oil (eng.), 636,409 kWh; pur. 84,530,906 kWh; rev. $6,421,669. (1894)* 4

MERRIMAC Mun. Light Dept., 2 School St., 01860, 617/346-8311, Raymond J. Bastarache, mgr.; 1,827 met.; no gen.; pur. 15,603,703 kWh; rev. $1,055,234. (1904)* 4

MIDDLEBOROUGH Gas & Elec. Dept., Town Hall, Nickerson Ave., 02346, 617/947-1371, John Dunfey, mgr.; 8,644 met.; no gen.; pur. 112,097,611 kWh; rev. $8,692,528. (1893)* 4

MIDDLETON Mun. Light. Dept., S. Main St., Box 68, 01949, 617/774-4313, Mark Kelly, mgr.; 1,633 met.; no gen.; pur. 44.1 million kWh; rev. $1,988,136. (1914)*

NORTH ATTLEBORO Elec. Dept., 43 S. Washington St., Box 790, 02761, 617/699-7542, David Sweetland, mgr.; 8,578 met.; no gen.; pur. 155,602,946 kWh; rev. $10,215,066. (1894)*

NORWOOD Mun. Light Dept., 404 Central St., Box 40, 02062, 617/762-0115, John J. Carroll, gen. mgr.; 13,348 met.; no gen.; pur. 202.5 million kWh; rev. $9,500,000. (1907)*

PAXTON Mun. Light Dept., 578 Pleasant St., 01612, 617/756-9508, Harold L. Smith, mgr.; 1,314 met.; no gen.; pur. 24,371,992 kWh; rev. $1,417,708. (1913)*

PEABODY Mun. Light Plant, 70 Endicott St., 01960, 617/531-5975, Bruce P. Patten, mgr.; 19,092 met.; gen. 26,350 kW, 19,700 kW oil (comb. turbine), 11,150 kW oil (eng.), 2,606,000 kWh; pur. 314,088,685 kWh; rev. $24,544,017. (1894)*

PRINCETON Mun. Light Dept., Box F, 01541, 617/464-2815, Richard F. Wheeler, mgr.; 1,084 met.; no gen.; pur. 7.2 million kWh; rev. $496,139. (1913)*

READING Town of, Mun. Light Dept., 25 Haven St., Box 150, 01867, 617/944-1340, Norbert D. Rhinerson, gen. mgr.; 20,819 met.; no gen.; pur. 484,101,231 kWh; rev. $35,487,075. (1894)*

ROWLEY Mun. Lighting Plant, 47 Summer St., 01969, 617/948-3992, G. Robert Merry, mgr.; 1,734 met.; no gen.; pur. 15,780,800 kWh; rev. $1,306,328. (1910)*

RUSSELL Mun. Light Dept., Shattuck Rd., 01071, 413/862-4400, Herman L. Boyden, mgr.; 361 met.; no gen.; pur. 3.5 million kWh; rev. $132,637. (1920)

SHREWSBURY's Elec. Light Plant, 100 Maple Ave., 01545, 617/845-4881, James E. Baker, mgr.; 9,456 met.; gen. 13,750 kW eng.; 1,666,000 kWh; pur. 170,145,000 kWh; rev. $10,490,149. (1908)*

SOUTH HADLEY, Town of, Elec. Light Dept., 85 Main St., 01075, 413/536-1050, Wayne D. Doerpholz, mgr.; 6,380 met.; no gen.; pur. 102,892,100 kWh; rev. $6,464,658. (1914)*

STERLING Mun. Elec. Light Dept., Box 327, 01564, 617/422-6662, William H. Rugg, mgr.; 2,164 met.; no gen.; pur. 28,597,338 kWh; rev. $1,933,282. (1911)*

TAUNTON Mun. Lighting Plant, 55 Weir St., 02780, 617/824-5844, Joseph Blain, mgr.; 22,983 met.; gen. 28,300 kW oil (steam turbine); 110,000 kW oil (comb. cycle); 165,579,000 kWh; pur. 303,172,548 kWh; rev. $36,655,049. (1897)*

TEMPLETON Mun. Lighting Plant, 2 School St., Baldwinville, Mass., 01436, 617/939-5323, Gerald P. Skelton, mgr.; 2,308 met.; no gen.; pur. 72,778,100 kWh; rev. $4,452,134. (1906)*

WAKEFIELD Mun. Light Dept., 9 Albion St., 01880, 617/245-0027, William J. Wallace, mgr.; 9,959 met.; no. gen.; pur. 125,460,746 kWh; rev. $10,085,867. (1894)*

WELLESLEY, Town of, 455 Worcester St., Wellesley Hills, 02181, 617/235-7600, Maurice R. Berdan, mgr., mun. light plant, 9,049 met.; no gen.; pur. 166,331,469 kWh; rev. $13,230,445. (1892)*

WEST BOYLSTON Mun. Lighting Plant, 4 Crescent St., 01583, 617/835-3681, Charles H. Coughlin, mgr.; 2,522 met.; no gen.; pur. 49,619,911 kWh; rev. $3,129,050. (1910)*

WESTFIELD Gas & Elec. Light Dept., 100 Elm St., Box 990, 01085, 413/568-9171, Daniel Golubek, gen. mgr.; 13,908 met.; no gen.; sales 34,737,691 kWh; rev. $18,641,923. (1899)*

MICHIGAN

BARAGA, Village of, Box 285, 49908, 906/353-6237, J. H. Ross, supt.; 525 met.; no gen.; pur. 3 million kWh.

BAY CITY Elec. Light & Power, 900 S. Water, 48706, 517/894-8345, Richard G. Harris, dir., elec. utils; 13,856 met.; gen. 5,750 kW dual-fuel, 7,748,000 kWh; pur. 156,922,821 kWh; rev. $10,019,764. (1886)*

CHARLEVOIX City of, 210 State St., 49720, 616/547-2271, James Brinker, city mgr.; 2,870 met.; no gen.; sales 30,123,294 kWh; rev. $1,715,134.

CHELSEA Elec. & Water Dept., 104 E. Middle St., 48118, 313/475-1771, Charles Hafner, supt.; 1,588 met.; no gen.; pur. 22,823,000 kWh; rev. $1,177,052. (1898)

CLINTON Bd. of Pub. Utils., 119 E. Michigan Ave., 49236, 517/456-4207, Richard W. Sharpe, village mgr., 1,100 met.; gen. 2,310 kW eng.;2,000 kW dual-fuel, pur. 20,300,000 kWh; rev. $1,540,000. (1893)

COLDWATER Bd. of Pub. Utils., 28 W. Chicago St., 49036, 517/279-9531, James R. Endicott, dir.; 5,452 met.; gen. 22,000 kW, 8,000 kW coal (steam turbine), 4,500 kW oil-eng., 9,500 kW dual-fuel (eng.), 49,080,700 kWh; pur. 70,553,400 kWh; rev. $6,762,312. (1891)*

CROSWELL Light & Power Dept., 120 E. Sanborn Ave., 48422, 313/679-2120-2121, Parry G. Baer, mgr.; 980 met.; no gen.; pur. 24 million kWh; rev. $1,014,433. (1897)

CRYSTAL FALLS Elec. Dept., 401 Superior Ave., 49920, 906/875-6650, Walter E. Hagglund, city mgr.; 1,472 met.; gen. 1,100 kW hydro; 6,271,300 kWh; pur 8,522,000 kWh; rev. $753,000 (1891)*

DAGGETT Elec. Dept., Gen. Delivery, 49821, 906/753-6915, Stanley Saltz, maint.; 200 met.; no gen.; pur. 1,137,000 kWh. (1912)

DETROIT Pub. Lighting Dept., 9449 Grinnell Ave., 48213, 313/267-7267, William F. Gaughan, supt.; 1,459 met.; gen. 184,000 kW, 94,000 kW oil (steam turbine), 30,000 kW oil (combus. turbine), 60,000 kW gas (steam turbine); 192,345,000 kWh; pur. 486,194,000 kWh; rev. $56,055,945. (1893)*

DOWAGIAC Dept. of Pub. Services, 203 Chestnut St., 49047, 616/782-8200, Larry J. Rohacs, dir.; 2,436 met.; gen. 3,875 kW, 2,739 kW oil, 1,136 kW dual-fuel (eng.), 1,585,000 kWh; pur. 44,465,000 kWh; rev. $2,170,493. (1936)*

EATON RAPIDS, City of, 200 S. Main St., 48827, 517/663-8118, Dennis O. Craun, city mgr.; 1,803 met.; no gen.; pur 27,276,800 kWh; rev. $1,602,837. (1898)

ESCANABA Mun. Elec. Util., 120 N. Eighth St., 49829, 906/786-0061, Edwin A. Korpi, supt.; 7,407 met.; gen. 25,000 kW steam; pur. 96.1 million kWh; rev. $4,528,000. (1894)*

GLADSTONE Elec. Dept., 1100 Delta Ave., 49837, 906/428-1633, Lawrence M. Young, supt.; 2,800 met.; gen. 19.2 million kWh; pur. 1.8 million kWh; rev. $935,000. (1955)

GRAND HAVEN Bd. of Light & Power, 650 Harbor Ave., 49417, 616/846-6250, Jack Buckner, gen. mgr.; 8,669 met.; gen. 110,330 kW, 87,900 kW coal (steam turbine), 12,715 kW oil, 2,715 kW gas, 7,000 kW dual-fuel (eng.), 189,932,100 kWh; pur. 1,865,943; rev. $9,219,583. (1896)*

HARBOR SPRINGS, City of, 170 Zoll St., 49740, 616/526-2122, Gerald Felix, city mgr., Douglas V. Porter, elec. dist. supt.; 2,182 met.; no gen.; pur. 18.1 million kWh; rev. $961,450. (1898)

HART Hydro Elec., 407 State St., 49420, 616/873-2434, Vern Lambrix, supt.; 1,344 met.; gen. 2,974 kW, 964 kW oil-fired eng., 1,690 kW dual-fuel eng., 320 kW hydro gas turbine, 4,762,000 kWh; pur 12,446,600 kWh; rev. $853,000. (1927)

HILLSDALE Bd. of Pub. Util., City Hall, 49242, 517/437-3387, Ronald D. Neer, dir. of utils.; 5,140 met.; gen. 21,000 kW, 2,500 kW oil (combus. eng.), 18,500 kW dual-fuel (eng.), 22,457,000 kWh; pur. 78,531,368 kWh; rev. $6,594,357. (1893)*

HOLLAND Bd. of Pub. Works, 268 River Ave., 49423, 616/396-4628, Tim Morawski, gen. mgr.; 17,048 met.; gen. 64,400 kW, 62,400 kW coal (steam turbine), 20,000 kW oil (combus. turbine), 307,000,000 kWh; pur. 22,083,311 kWh; rev. $16,218,752. (1893)*

L'ANSE, Village of, Elec. Util., 101 Main St., 49946, 906/524-6116, Bruce G. Carlson, supt.; 1,500 met.; no gen.; pur. 10,557,000 kWh; rev. $577,346. (1908)

LANSING Bd. of Water & Light, 123 W. Ottawa St., Box 13007, 48901, 517/487-4829, Joseph Pandy Jr.; dir. and gen. mgr.; 84,725 met.; gen. 628,650 kW, 627,500 kW coal (steam turbine), 150 kW hydro, 2,143,247,232 kWh; pur. 4 million kWh; rev. $97,551,621. (1892)*

LOWELL Mun. Light & Power Plant, 127 N. Broadway, 49331, 616/897-8402, Herbert Haines, supt.; 1,700 met.; pur. 24.8 million kWh.

MARQUETTE Bd. of Light & Power, 2200 Wright St., 49855, 906/228-6900, Ronald Lindeblad, actng. dir.; 13,152 met.; gen. 75,300 kW, 33,600 kW steam, 23,700 kW gas turbine, 14,100 kW eng., 3,900 kW hydro, 175,000,000 kWh; pur. 30 million kWh; rev. $12,993,078. (1889)*

MARSHALL City Water & Elec. Works, 109 E. Michigan Ave., 49068, 616/781-3968, Richard C. Ashdown, admr.; 3,964 met.; gen. 13,080 kW, 12,761 kW eng., 319 kW hydro, 22.4 million kWh; pur. 34.7 million kWh; rev. $3,039,299. (1892)

NEGAUNEE City of, City Hall, Silver St., 49866, 906/475-7220, T.R. McNabb, city mgr., 2,270 met.; no gen.; pur. 20,080,800 kWh; rev. $1,224,905.

NEWBERRY Water & Light, 307 E. McMillan, 49868, 906/293-8531, Keith Sleeper, supt.; 1,314 met.; gen. 4,540 kW dual-fuel, 142,000 kWh; pur. 17,160,650 kWh; rev. $733,842. (1890)

NILES Utils. Dept., 602 E. Main St., Box 217, 49120, 616/683-4700, S. A. Brett, mgr.; 6,627 met.; gen. 460 kW hydro, pur. 100,093,900 kWh; rev. $4,040,157. (1894)*

NORWAY City of L&P Dept., 915 Brown St., 49870, 906/563-9641, J. E. Stanchina, supt.; 1,768 met.; gen. 3,500 kW hydro, 24,345 kWh; pur. 2,747,900 kWh; rev. $690,000. (1904)

PAW PAW, Village of, 111 E. Michigan Ave., 49079, 616/657-3169, Harry L. Bush, supt. of pub. works; 1,638 met.; no gen.; pur. 27,050,400 kWh; rev. $1,586,492. (1898)*

PETOSKEY, City of, 200 Division St., 49770, 616/347-8362, George Korthauer, city mgr.; 3,401 met.; pur. 60,100,000 kWh; rev. $3,633,407. (1898)*

PORTLAND, City of,Mun. Elec. Dept., 723 East Grd. River, 48875, 517/647-6912, 647-7531, Nyle Blaschka, supt. operns.; 1,845 met.; gen. 1,120 kW oil (eng.), 375 kW hydro, 2,337,125 kWh; pur. 18,254,430 kWh; rev. $1,176,672. (1896)

ST. LOUIS Mun. Elec. Util., 412 N. Mill St., 48880, 517/681-3351, Ron Gibson, supt.; 1,693 met.; gen. 2,155 kW oil, 1,360 kW gas (eng.), 408 kW hydro, 2,675,020 kWh; pur. 12,912,000 kWh. (1899)

SEBEWAING Light & Water Dept., 110 W. Main, 48759, 517/883-2700, Arthur G. Reinhold, supt.; 1,100 met.; gen. 8,400 kW dual-fuel eng.; 3,000,000 kWh; pur. 19,000,000 kWh; rev. $1,200,000. (1911)*

SOUTH HAVEN Bd.of Pub. Utils., Box 507, 49090, 616/637-5211, Paul L. Preston Jr., city mgr.; 5,448 met.; no gen.; sales 90,137,950 kWh; rev. $4,155,706. (1902)*

STEPHENSON City of, 49887, 906/753-2225, Stanley Saltz, supt.; 459 met.; no gen.; sales 5,149 kWh; rev. $202,077. (1920)

STURGIS, City of, Box 280, 49091, 616/651-2321, John E. Brand, city mgr.; 5,741 met.; gen. 5,350 kW oil, 6,000 kW dual-fuel (eng.), 2,600 kW hydro, 17,129,660 kWh; pur. 115,115,200 kWh; rev. $5,882,112. (1910)*

TRAVERSE CITY Light & Power Dept., 400 Boardman Ave., Governmental Center, Box 592, 49685-0592, 616/941-2309, Thomas Richards, exec. dir.; 6,768 met.; gen. 27,000 kW coal (steam turbine), 7,500 kW gas (combus. turbine), 500 kW hydro, 143,883,264 kWh; pur. 80,597,485 kWh; rev. $8,747,073. (1912)*

UNION CITY Elec. Dept., 215 W. High St., 49094, 517/741-8591, James E. Spencer, supt.; 1,000 met.; gen. 1,500 kW eng.; pur. 176,131,000 kWh; rev. $612,049.

WAKEFIELD Light & Power Dept., City Hall, 1211 Hancock St., 49968, 906/229-5231, Rudy Mikulich, city mgr.; 1,112 met.; no gen.; pur. 10,100,000 kWh; rev. $404,491. (1920)*

WYANDOTTE City of, Dept. of Mun. Service, 3005 Biddle Ave., 48192, 313/282-7100, Dale O. Simmons, gen. mgr.; 14,154 met.; gen. 56,000 kW 33,000 kW coal, 23,000 kW comb. cycle (gas), 176,131,000 kWh; pur. 4,243,265 kWh; rev. $9,863,248. (1894)*

ZEELAND Bd. of Pub. Works, 21 South Elm St., 49464, 616/772-6212, Martin J. Hieftje, util. mgr.; 2,411 met.; gen. 22,000 kW dual-fuel eng., 51,745,750 kWh; pur. 22,896,000 kWh; rev. $4,327,740. (1935)*

MINNESOTA

ADA Water & Light Dept., 56510, 218/784-2211, P. Donovan, dir., pub. works; 1,350 met.; no gen.; pur. 16,268,533 kWh; rev. $483,811.

ADRIAN Pub. Util. Comm., 20 Maine Ave., 56110, 507/483-2680, Leo J. Hensen, supt.; 665 met.; no gen.; pur. 9,395,424 million kWh; rev. $322,053.*

AITKIN Pub. Util. Comm., 120 First St., N.W., 56431, 218/927-3222, Wilfrid Fossum, mgr.; 1,400 met.; no. gen.; pur. 20,600,000 kWh; rev. $1,343,050. (1892)*

ALEXANDRIA Light & Power, 316 Fillmore St., 56308, 612/763-6501, Earl LaMaack, gen. mgr.; 6,278 met.; gen. 9,145 kW dual-fuel, (eng.), 44,200 kWh; pur. 137,816,597 kWh; rev. $4,513,499. (1889)*

ALPHA Elec. Dept., Box 97, 56111, 507/847-3557, Leonard G. Tauer, supt.; 159 met.; no gen.; sales 1,267,970 kWh; rev. $66,503. (1915)

ALVARADO Mun. Elec. Dept., 56710, 218/965-4911, Herb Monk, supt.; 190 met.; pur. 2,504,720 kWh; rev. $52,000.

ANOKA, City of, Elec. Dept., 215 Harrison St., 55303, 612/421-6630, Lewis Bradford, dir. of util.; 7,718 met.; no gen.; pur. 144,648,000 kWh; rev. $7,056,357. (1901)*

ARLINGTON Elec. & Water Dept., 312 W. Alden St., 55307, 612/964-2378, Russell Good, supt.; 775 met.; no gen.; pur. 11.2 million kWh; rev. $468,150.

AUSTIN Utils., Box 368, 500 Fourth Ave., N.E., 55912, 507/433-8886, George R. Davis, supt., gen. mgr.; 11,221 met.; gen. 29,340 kW coal-gas, 28,000 kW gas-oil, 5,000 kW gas-oil turb., 121,939,000 kWh; pur. 212,624,800 kWh; rev. $10,988,482. (1900)*

BAGLEY Pub. Utils. Comm., Box M, 56621, 218/694-2300, Bernie Stavig, supt.; 530 met.; no gen.; pur. 13.5 million kWh; rev. $325,501. (1907)

BARNESVILLE, City of, Elec. Utils., Box 295, 56514, 218/354-2292, H. Gilbertson, supt.; 1,164 met.; no gen.; pur. 15,985,535 kWh; rev. $588,669. (about 1898)*

BAUDETTE City of, Box 548, 56623, 218/634-2432, George Taylor, supt.; 649 met.; gen. 1,900 kW oil eng., 2,750 kWh; pur. 9,986,280 kWh; rev. $488,545.

BENSON, City of, Water & Light, 1411 Pacific Ave., 56215, 612/843-4775 or 3707, James L. Ehret, util. supt.; 1,986 met.; gen. 2,900 oil (eng.), 39,280 kWh; pur. 24,257,766 kWh; rev. $696,420. (1902)*

BIGELOW City of, 56117, 507/683-2682, Paul Marco, city clerk; 148 met.; no gen.; pur. 1,585,200 kWh; rev. $66,602.

BIWABIK Water, Light, Power & Bldg. Comm., Box A, 55708, 218/865-6740, Richard Harju, supt.; 616 met.; no gen.; pur. 6,140,808 kWh; rev. $434,056. (1904)

BLOOMING PRAIRIE Pub. Utils., Box 55, 146 Third Ave. SE., 55917, 507/583-6683, Richard D. Kittelson, gen. mgr.; 904 met.; gen. 3,598 kW oil-fired eng., 27,920 kWh; pur. 12,693,600 kWh; rev. $611,426. (1931)*

BLUE EARTH Light & Water Dept., 118 E. Sixth St., 56013, 507/526-2191, Jeffrey Jansen, supt.; 2,061 met.; gen. 8,500 kW, 5,000 kW eng., 3,500 kW oil (steam turbine); 2,589,900 kWh, pur. 33,126,275 kWh; rev. $2,362,511. (1895)*

BRAINERD Water & Light Dept., 501 Laurel St., Box 373, 56041, 218/829-8726, Walter Sjolund, supt., 6,055 met.; no gen.; pur. 99,548,037 kWh; rev. $6,036,758. (1892)

BRECKENRIDGE Pub. Utils., 203 420 Nebraska Ave., Box 410, 56520, 218/643-4681, Ken Twito, supt., 1,712 met.; no gen.; pur. 32,924,987 kWh; rev. $921,520. (1907)*

BREWSTER Elec. Light & Power Dept.,906 3rd Ave., 56119, 507/842-5963, Kenneth Kluver, supt.; 320 met.; no gen.; pur. 3,203,738 kWh; rev. $179,139. (1914)

BROWNTON Mun. Elec. Light Dept., City Hall, 528 2nd St. N., 55312, 612/328-5318, Carl Wachter, mayor; 342 met.; no gen.; pur. 4,152,800 kWh; rev. $185,214. (1921)

BUFFALO Mun. Util.,212 Central Ave., 55313, 612/682-1181, Merton Auger, city adm.; 2,155 met.; no gen.; pur. 35,378,600 kWh; rev. $1,763,327. (1921)*

BUHL Water & Light Dept., Box 704, 55713, 218/258-3217, Mike Miklovich, supt.; 500 met.; pur. 4,333,003 kWh; rev. $252,321.

CALEDONIA Mun. Light Dept., 231 E. Main St., 55921, 507/724-3450, R. Schmitz, supt.; 1,285 met.; no gen.; pur. 14,579,200 kWh; rev. $798,835. (1903)

CEYLON Water & Light Dept., 56121, 507/632-4635, William F. Ditz, city clerk/treasurer; 247 met.; no gen.; pur. 79,987 kWh; rev. $25,726.

CHASKA Pub. Utils., 205 E. Fourth St., 55318, 612/448-2425, Steve J. Wilker, supt. of utils.; 2,934 met.; no gen.; pur. 63,772,800 kWh; rev. $3,071,135. (approx. 1905)*

DELANO Mun. Utils., 11 W. Bridge Ave., 55328, 612/972-3211, Milton Voltin, supt.; 1,200 met.; gen. 2,276 kW oil, eng., 2,505 kW dual-fuel eng.;130,300 kWh; pur. 17,250,240 kWh; rev. $860,928. (1932)*

DETROIT LAKES Pub. Util. Dept., 1025 Roosevelt Ave., Box 647, 56501, 218/847-7609, Greg Sherman, supt.; 4,386 met.; no gen.; pur. 84.788,496 kWh; rev. $2,797,533. (1902)*

DUNNELL, Village of, 56127, 507/695-2518, Laird Moore, city clerk; 120 met.; no. gen.; rev. $47,295. (1920s)

EAST GRAND FORKS Water & Light Dept., Box 322, 56721, 218/773-1163, Jerry Neppel, elec. supvr.; 3,700 met.; no gen.; pur. 86,036,530 kWh; rev. $2,570,440. (1906)

EITZEN Pub. Utils.,Box 97, 55931, 507/495-3259, J. Anthony Stokman, clerk-treas.; 130 met.; no gen.; pur. 1,800,400 kWh; rev. $116,857. (est. 1946)

ELBOW LAKE Mun. Elec., Box 1079, 56531, 218/685-4483, Gerald Walwick, comm. pres.; 857 met.; no gen.; pur. 14,334,915 kWh; rev. $540,105. (1965)*

ELK RIVER Mun. Utils., 322 King Ave., 55330, 612/441-2020, Edson C. Stansfield, utils. supt.; 2,517 met.; gen. 1,100 kW oil-fired, 8,000 kW gas,8,000 kW dual-fuel, 182,300 kWh; pur. 43,960,000 kWh; rev. $2,596,423. (1945)

ELY Water & Light Dept., 209 E. Chapman St., 55731, 218/365-3224, Albin Mavetz, supt.; 2,692 met.; no gen.; pur 27,141,840 kWh; rev. $1;353,716.

FAIRFAX Mun. Utils., 206 S. First St., 55332, 507/426-7255, Russell N. Mortenson, supt.; 696 met.; no gen.; pur. 11,378,571 kWh; rev. $208,116.

FAIRMONT Pub. Utils. Comm., 117 E. First St., 56031, 507/238-9461, Paul T. Lee, util. dir., 5,756 met.; gen. 36,000 kW, 24,000 kW steam, 12,000 kW dual-fuel, 25,088,000 kWh; pur. 131,993,871 kWh; rev. $7,991,884. (1902)*

FOSSTON Mun. Light & Power, 220 E. First St., 56542, 218/435-1737, Russell W. Earls, supt. pub. wks.; 709 met.; gen. 954 kW eng., pur. 16.1 million kWh; rev. $380,310. (1941)

GILBERT Water & Light Dept., City Hall, Broadway, 55741, 218/741-9617, Hazel Griffith, city clerk; 990 met.; no gen.; pur. 10,083,312 kWh; rev. $580,941. (1908)

GLENCOE Mun. Elec. Plant, 305 11th St. East, 55336, 612/864-5184, Joe Adrian, mgr.; 1,999 met.; gen. 21,156 kW eng., 1,572,270 kWh; pur. 46,395,700 kWh; rev. $2,574,013. (1938)*

GRAND MARAIS Pub. Util. Comm., Box 83, 55604, 218/387-1848, Glenn R. Bergstrom, mgr.; 900 met.; gen. 4,034 kW eng., 2.3 million kWh; pur. 8.7 million kWh; rev. $722,000. (1949)

GRAND RAPIDS Pub. Utils. Comm., Box 658, 55744, 218/326-3493, Raymond Litchke, gen. mgr.; 4,842 met.; no gen.; pur. 93,252,558 kWh; rev. $5,317,245. (1910)

GRANITE FALLS Mun. Power, 885 Prentice, 56241, 612/564-4430, Richard A. Voller, city mgr.; 1,500 met.; gen. 500 kW hydro, 2 million kWh; pur. 19 million kWh; rev. $800,000. (1890)

GROVE CITY Pub. Utils., Box 84, 56243, 612/587-2322, David Martin; 304 met.; no gen.;pur. 5,413,800 kWh.

HALSTAD Municipal, 56548, 218/456-2128, Daniel R. Duklet, supt. of utils.; gen. 1,060 kW oil-fired eng., 4,350 kWh; pur. 8,679,764 kWh; rev. $336,485. (1939)

HARMONY Water & Light, Box 488, 55939, 507/886-8122, Norman Johnson, supt., pb. wks.; 533 met.; no gen.; pur. 6,528,000 kWh.

HAWLEY, City of Pub. Utils. Comm., 56549, 218/483-3331, L. L. Quam, city clerk; 766 met.; gen. 780 kW oil,650 dual-fuel (eng.); pur. 12,219,014 kWh; rev. $438,196. (1909)

HENNING Power & Light, 56551, 218/583-2402, Filmore Trites, mayor; 464 met.; no gen.; pur. 6,178,454 kWh; rev. $303,263. (1956)*

HIBBING Pub. Utils. Comm., Box 249, 55746, 218/263-7515, Karl E. Marietta, gen. mgr.; 7,777 met.; gen. 19,000 kW steam, 45,967,000 kWh; pur. 71,403,000 kWh; rev. $7,136,752. (1895)*

HUTCHINSON Utils. Comm., 225 Michigan St., 55350, 612/587-4746, Rufus Alexander, gen. mgr.; 4,619 met.; gen. 25,000 kW oil, (comb. turbine), 14,500 kW oil & gas (comb. cycle), 19,280 kW oil & gas (eng.), 19,486,000 kWh; pur. 143,753,000 kWh; rev. $8,790,536. (1936)*

JACKSON Mun. Power Plant, 504 Second St., 56143, 507/847-4410, William R. Holmes, supt.; 1,835 met.; gen. 900 kW oil eng., sales 27,642,235 kWh; rev. $928,536. (1913)*

JANESVILLE Mun. Utils., 219 N. Main, 56048, 507/234-5112, Alan Junkers, plant supt., Clifford Coonrod, line supt.; 860 met.; gen. 3,176 kW dual-fuel eng., 773,400 kWh; pur. 6.7 million kWh; rev. $408,444. (1939)*

KANDIYOHI, City of, 56251, 612/382-6110, William Schroeder, supt.; 215 met.; no gen.; sales 3,695,746 kWh; rev. $101,166.

KASOTA City of Elec., Box 218, 56050, 507/931-3290, J. Neubert, supt.; 236 met.; no gen.; pur. 2,256,343 kWh; rev. $110,595.

KASSON Municipal, 122 W. Main St., 55944, 507/634-7071, Keith Houston, util. supt.; 1,303 met., no gen.; pur. 11,570,400 kWh; rev. $584,647. (1937)

KEEWATIN Pub. Utils. 55753, 218/778-6544, Matt Draskovich, supvr.; 650 met.; no gen.; pur. 5,830,014 kWh; rev. $390,722. (1927)

KENYON Mun. Utils., 713 Second St., 55946, 507/789-6573, Lorry Wille, supt.; 783 met.; no gen.; pur. 9,792,000 kWh; rev. $487;509. (1932)

LAKE CITY Utils., 205 West Center St., 55041, 612/345-5383, James Biggar, supt.; 2,222 met.; no gen.; pur. 67,689,600 kWh; rev. $2,902,081. (1907)*

LAKE CRYSTAL Pub. Util., 100 E. Robinson St., 56055, 507/726-2538, Alden Sutherland, mgr.; 900 met.; gen. 4,195 kW dual-fuel, eng., pur. 9,847,615 kWh; rev. $567,941. (1937)

LAKEFIELD Pub. Utils., 56150, 507/662-6363, Richard Thompson. 984 met.; gen. 2,066 kW gen. 2,066 kW eng.; sales 10,083,212 kWh; rev. $385,942. (1900)*

LAKE PARK Pub. Utils., Box 265, 56554, 218/238-5532, George Mattson, supt.; 302 met.; no gen.; pur. 2.7 million kWh; rev. $76,000.*

LANESBORO Pub. Utils., Box 333, 55949, 507/467-3222, Larry Peterson, elec. oper.; 464 met., gen. 1,296 kW, 56,710 kWh; pur. 4.3 million kWh; rev. $214,589. (1902)

LE SUEUR Mun. Utils., 228 N. Main, 56058, 612/665-3338, Mervin Hentges, supt.; 1,785 met.; no gen. pur. 38,976,000 kWh; rev. $1,701,807. (1934)

LITCHFIELD Pub. Utils., 421 W. Third St., 55355, Box 521, 612/693-3277 Dallas E. Nelson, supt.; 2,712 met.; gen. 8,120 kW, 3,980 kW oil-fired, 4,140 kW dual-fuel, 86,000 kWh; pur. 76,539,071 kWh; rev. $2,332,451. (1889)*

LUVERNE, City of, Mun. Utils., 203 E. Main, 56156, 507/283-2388, Mary Guhin, city admin.; 2,061 met.; gen. 7,422 kW, 3,000 kW oil (steam), 4,422 kW gas eng.: 43,510 kWh; pur. 53,756,530 kWh; rev. $1,036,467. (1893)*

MABEL, City of, 55954, 507/493-5299, Jimmy Narum, city clerk; 450 met.; no gen.; pur. 164,500 kWh; rev. $184,000. (1905)

MADELIA Mun. Light & Power, 24 Abbott Ave., S.W., 56062-0026, 507/642-8803, Steve Moses, supt.; 1,030 met.; gen. 8,296 dual-fuel kW eng., 141,000 kWh; pur. 21,157,663 kWh; rev. $942,041. (1939)*

MADISON Mun. Utils., 109 7th Ave., 56256, 612/598-3239, Harold Hodge, supt.; 1,144 met.; no gen.; pur. 19,198,933 kWh; rev. $640,419. (1898)*

MARSHALL Mun. Utils., 113 S. Fourth St., 56258, 507/532-4451, F. Al Rome, gen. mgr.; 4,664 met.; gen. 22,327 kW, 18,355 kW oil comb. turbine, 3,972 kW oil-fired eng.; 166,200 kWh; pur. 171,638,376 kWh rev. $4,971,198. (1894)*

MELROSE Pub. Utils., 225 First St. N.E., 56352, 612/256-4278, Clarence Greeno, util. supt.; 1,512 met.; gen. 2,111 kW oil-fired, 6,000 kW dual-fuel, 179,000 kWh; pur. 41,631,784 kWh; rev. $1,247,641. (1905)*

MOORHEAD Pub. Service Dept., 500 Center Ave., Box 779, 56560, 218/299-5400, Thomas H. McCauley, supt.; 11,583 met.; gen. 33,000 kW, 23,000 kW coal, 10,000 kW oil, (comb-turb.); 66,000 kWh; pur. 280,755,680 kWh; rev. $8,007,957. (1895)*

MOOSE LAKE Water & Light Comm., 401 Douglas Ave., Box 418, 55767, 218/485-4100, Warren G. Weske, supt.; gen. 3,700 kW dual-fuel eng., 900 kWh; pur. 12,461,150 kWh; rev. $790,486. (1933)

MORA Mun. Elec. Util., 117 S.E. Railroad Ave., 55051, 612/679-1451, Robert A. Filson, city admin.; 1,434 met.; gen. 13,911 kW oil (eng.), 46,600 kWh; pur. 43,017,118 kWh; rev. $2,364,990. (1934)*

MOUNTAIN IRON Pub. Utils., Box 505, 55768, 218/735-8267, Richard Anderson, supt.pub. wks., 729 met.; no gen.; pur. 10,689,900 kWh; rev. $701,260. (1919)

MOUNTAIN LAKE Mun. Utils., 925 Second Ave., 56159, 507/427-2633, Norman Fast, elec. supt.; 1,100 met.; gen. 5,442 kW eng., 10,000 kWh; pur.1,800,000 kWh; rev. $1,296,530. (1935)

NASHWAUK Pub. Utils. Comm., 315 Third St., 55769, 218/885-2522, Louis E. Legueri, supt.; 601 met.; no gen.; pur. 6 million kWh; rev. $295,542. (1910)

NEWFOLDEN Elec. Dept., 56738, 218/874-5215, Martin Smeby, supt.; 213 met.; no gen.; rev. $60,000.

NEW PRAGUE Utils., 300 E. Main St., 56071, 612/758-4447, Donald E. Meyer, supt.; 1,403 met.; gen.

18,200 kW, 16,650 kW dual-fuel eng., 1,000 kW oil-fired eng., 550 kW gas-fired; 778,000 kWh; pur. 41,224,607 kWh; rev. $2,384,537. (1928)*

NEW ULM Pub. Utils.Comm., 310 First North St., 56073, 507/354-4182, Dave Peterson, supt.; 5,962 met.; gen. 45,000 kW, 21,000 kW coal, 24,000 kW comb. turbine; 90,896,920 kWh; pur. 39,432,000 kWh; rev. $8,328,451. (1902)*

NIELSVILLE Utils., 56568, Darlene Ruthenberg, city clerk; 75 met.; no gen.; pur. 725,064 kWh; rev. $21,326.

NORTH BRANCH Water & Light, 712 Maple St., Box 176, 55056, 612/674-7100, Richard C. Anderson, supt.; 774 met.; gen. 2,365 kW dual-fuel eng.; 891,000 kWh; pur. 11,819,000 kWh; rev. $649,326. (1941)*

NORTH ST. PAUL, City of, 2526 E. 7th Ave., 55109, 612/770-4488, Ron Schuler, dir., elec. utils.; 5,217 met.; no gen.; pur. 55,580,000 kWh; rev. $3,029,927. (1898)*

OLIVIA City of, 1009 W. Lincoln Ave., 56277, 612/523-2361, Richard N. Carlson, city clerk; 1,221 met.; no gen.; pur. 22,574,200 kWh; rev. $573,031

ORTONVILLE Light Dept., 315 Madison Ave., 56278, 612/839-3428, Arthur Hamann, super. light dept., 1,796 met.; no gen.; pur. 27,218,734 kWh; rev. $917,775. (1905)*

OWATONNA Pub. Utils., 208 S. Walnut Ave., Box 800, 55060, 507/451-2480, David M. Martin, gen. mgr.; 7,979 met.; gen. 49,000 kW, 30,000 kW gas (steam), 19,000 kW gas comb. turbine; 18,057,400 kWh; pur. 139,700,400 kWh; rev. $7,299,890 (1924)*

PETERSON Elec. System, 55962, 507/875-2240, Bill Grindland Jr.; 125 met.; no gen.; pur. 1.5 million kWh; rev. $67,337.

PIERZ Elec. Dept., 56364, 612/468-6471, Harold M. Mayor, Elec. Comm., 523 met.; no gen.; pur. 5,734,500 kWh; rev. $288,775.

PRESTON Pub. Utils., 109 St. Paul 2 S.W., 55965, 507/765-4541, Chester Rindels, supvr., city serv.; 805 met.; gen. 4,478 kW oil/dual-fuel (combus. turbine), 26,600 kWh; pur. 10,866,527 kWh; rev. $593,112. (1896)*

PRINCETON Pub. Utils. Comm., 907 1st St.,Box 218, 55371, 612/389-2252, Harold R. Steppuhn, supt.; 1,611 met.; gen. 2,700 kW oil, 4,950 kW dual-fuel (eng.), 231,800 kWh; pur. 29,220,981 kWh; rev. $1,352,282. (1938)*

PROCTOR Pub. Utils. Comm., 210 Third St., 55810, 218/624-4055, Joseph Knowlton, plant supt.; 1,310 met.; no gen.; pur. 13,951,000 kWh; rev. $873,006. (1941)

RANDALL Mun. Util., City Hall, 56475, 612/749-2159, Larry Sharon, clerk; 240 met.; no gen.; pur. 2.6 million kWh; rev. $136,000.

REDWOOD FALLS Pub. Utils Comm., 333 S. Washington, Box 48, 56283, 507/637-5789, Curtis G. Weber, supt.; 2,403 met.; gen. 8,000 kW, 7,800 kW dual-fuel, 200 kW hydro; 2,769,818 kWh; pur. 49,427,620 kWh; rev. $ 1,820,887. (1946)*

ROCHESTER Pub. Utils., 506 First Ave., NE., 55903, 507/285-8957, R. John Miner, gen. mgr.; 27,339 met.; gen. 135,400 kW, 98,400 kW coal, 35,000 kW oil (comb. turbine), 2,000 kW hydro, 420,763,000 kWh; pur. 639,203,500 kWh; rev. $31,344,241. (1892)*

ROSEAU Mun. Utils., 100 Second Ave., Box 307, 56751, 218/463-2351, Dale Drown, supt.; 1,400 met.; gen. 3,150 kW oil-fired eng., 29,800 kWh; pur. 19,224,000 kWh; rev. $1,329,000.

ROUND LAKE City of, Box 72, 56167, 507/945-8127, Gary Jurgensen, supt.; 245 met.; no gen.; pur. 53,627,000 kWh; rev. $302,031.

RUSHFORD, City of, 205 South Elm St., 55971, 507/864-2444, Gordon R. Hatleli, supt. pub. works; 751 met.; no gen.; pur. 9 million kWh; rev. $427,385.

RUSHMORE City of,Box 192, 56168, 507/478-4338, Alpharetta Palaschak, city clerk; 225 met.; no gen.; pur. 98,339 kWh; rev. $118,970.

ST. CHARLES Light & Water Dept., 1242 Whitewater Ave., 55972, 507/932-3020, Gus Ihrke, pub. wks. supt.; 1,094 met.; no gen.; pur. 14,276,829 kWh; rev. $724,268.

ST. JAMES Public Utils., 120 Armstrong Blvd., S., 56081, 507/375-3121, ext. 22, Craig Christiansen, supt. of pub. wks.; 2,028 met.; no gen.; pur. 30.1 million kWh; rev. $830,791.*

ST. PETER Mun Utils., 227 S. Front St., Box 299, 56082, 507/931-3540, Mel Johnson, Community Serv. Dir., 3,005 met.; no gen.; pur. 55,484,800 kWh; rev. $2,516,403. (1891)*

SARGEANT Elec. Light Dept., Box 21, 55973, 507/584-6886, Mrs. Herbert Martin, clerk; 30 met.; no gen.; sales 660,600 kWh,rev. $18,774.

SAUK CENTRE Light & Power Comm., 101 S. Main St., 56378, 612/352-6538, DeWayne Rubedor, supt.; 1,720 met.; no gen.; pur. 30,311,071 kWh; rev. $828,578. (1916)*

SHAKOPEE Pub. Utils. Comm., 1030 E. Fourth Ave., 55379, 612/445-1988, Louis Van Hout, util. mgr.; 4,114 met.; no gen.; pur. 73,811,200 kWh; rev. $3,427,001. (1900)*

SHELLY Mun. Light Dept., Box 126, 56581, 218/886-8355, Dean Denison, mayor; 134 met.; no gen.; pur. 2,426,400 kWh; rev. $72,202.

SLEEPY EYE Pub. Utils., 130 Second Ave., N.W., 56085, 507/794-4371, D. H. Logue, supt.; 1,674 met.; gen. 5,372 kW, 3,250 kW steam, 2,122 kW eng.; 2,987,488 kWh; pur. 23,380,037 kWh; rev. $1,256,386. (1895)*

SPRINGFIELD Pub. Utils. Comm., 14 N. Marshall Ave., 56087, 507/723-5290, Menno Mennenga, supt.; 1,115 met.; gen. 7,000 kW coal, 1.6 million kWh; pur. 14.8 million kWh; rev. $927,500. (1894)

SPRING GROVE Mun. Power, 55974, 507/498-5221, Robert Hillman, city clerk, 634 met.; no gen.; pur. 9,809,200 kWh; rev. $486,070.

SPRING VALLEY Pub. Utils. Comm., 104 S. Section Ave., 55975, 507/346-7622, Robert G. Carson, supt.; 1,395 met.; gen. 8,376 kW, 6,400 kW dual-fuel, 1,976 kW oil-fired eng., 183,000 kWh; pur. 15,582,700 kWh; rev. $1,015,183. (1935)*

STAPLES Mun. Water & Light Dept., 611 Iowa Ave., 56479, 218/894-2550, N.G. Schroeder, city adm.; 1,473 met.; no gen.; pur. 18,235,000 kWh; rev. $1,024,980.*

STEPHEN City of, Box 28, 56757, 218/478-3614, Leonard Bazey, supt.; 390 met.; no gen.; pur. 7,796,666 kWh; rev. $282,197. (1910)

THIEF RIVER FALLS Water & Light Dept., Box 528, 56701, 218/681-5816, John T. Anderson, supt.; 3,843 met.; gen. 5,991 kW, 5,441 kW oil-fired eng., (standby), 500 kW hydro, 3,829,700 kWh; pur. 77,375,342 kWh; rev. $2,636,257. (1901)*

TRUMAN Mun. Light Plant, 118 N. First Ave., Box 147, 56088, 507/776-6501, Erhardt F. Grefe, mgr.; 630 met.; gen. 4,277 kW dual-fuel, 453,600 kWh; pur. 8,212,100 kWh; rev. $479,621. (1938)*

TWO HARBORS Mun. Water & Light, 610 Second Ave., 55616, 218/834-4387, John D. Olsvik, city clerk; 1,708 met.; no gen.; sales 16,409,000 kWh; rev. $1,156,468. (1909)

TYLER Mun. Light & Power, 230 N. Tyler, 56178, 507/247-5556, Al Jorgensen, clerk; 710 met.; no gen.; pur. 11,291,000 kWh; rev. $456,000.

VIRGINIA Dept. of Pub. Utils.,Box 1048, 55792, 218/741-0741, Jerry Shrawder, mgt. consultant; 5,936 met.; gen. 35,000 kW coal, 73,066,700 kWh; pur. 19,621,000 kWh; rev. $4,933,873. (1913)*

WADENA Light & Water Dept., 104 N. Jefferson, 56482, 218/631-1813, Russell F. Berg, supt.; 2,342 met.; no gen.; pur. 44,372,607 kWh; rev. $1,506,282. (1897)*

WARREN, City of, 126 W. Johnson Ave., 56762, 218/745-5343, Ralph H. Plencner, supt.; 943 met.; gen. 2,161 kW oil-fired, 11,500 kWh; pur. 17,558,497 kWh; rev. $609,433. (1902)

WARROAD Light & Power, Box 50, 56763, 218/386-1454, Harold P. Olimb, city clerk; 570 met.; no gen.; pur. 15,426,000 kWh; rev. $540,000.

WASECA Water & Light Dept., 508 S. State St., 56093, 507/835-3890, Tim Madigan, city mgr.; 3,544 met.; no gen.; pur. 48,257,700 kWh; rev. $2,308,906. (1894)*

WELLS Pub. Utils., 101 First St., S.E., 56097, 507/553-3119; Ray Wigern, supt.; 1,388 met.; no gen.; pur. 16,837,000 kWh; rev. $820,091. (1894)*

WESTBROOK Mun. Light & Power, Box 296, 56183, 507/274-6712, Dennis Jutting, supt.; 526 met.; no gen.; pur. 8,039,918 kWh; rev. $260,671. (1938)*

WHALEN Electric Dept., 55986, 507/467-2326, Jerry Olson, mayor; 58 met.; no gen.; pur. 474,400 kWh.

WILLMAR Mun. Utils., Box 937, 56201, 612/235-4422, C. Ted Nelson, gen. mgr.; 7,215 met.; gen. 29,350 kW coal (steam), 86,107,440 kWh; pur. 66,021,805 kWh; rev., $6,567,033. (1895)*

WINDOM City of, 444-9th St., 56101, 507/831-1539, Dennis Purrington, elec. supt.; 2,165 met.;

gen. 3,000 kW comb. turbine, 14,000 kWh; pur. 42,013,000 kWh; rev. $1,119,504. (1895)*

WINTHROP Mun. Utils., 106 1st St. E., 55396, 507/647-5308, Del Thompson, supt.; 750 met.; no gen.; pur. 13,798,600 kWh; rev. $436,886.

WORTHINGTON Pub. Utils., 303 Ninth St., Box 279, 56187, 507/376-3161, Donald E. Habicht, city admin.; 4,697 met.; no gen.; pur. 100,250,404 kWh; rev. $4,433,921. (1895)*

MISSISSIPPI

(Systems designated "TVA" are distributors of Tennessee Valley Authority power and purchase all of their power from TVA.)

ABERDEEN Pub. Utils., Box 817, 39730, 601/369-4724, Doyle Herndon, gen. mgr.; 3,314 met.; pur. 127.6 million kWh; rev. $5,461,534. (TVA) (1939)

AMORY Elec. & Water Dept., Box 266, 38821, 601/256-5633, Billie B. Wright, mgr.; 3,752 met.; pur. 97.8 million kWh; rev. $4,493,485. (TVA) (1934)

CANTON Mun. Utils., Box 114, 39046, 601/859-2921, John M. Wallace, gen. mgr.; 4,434 met.; no gen.; pur. 74,930,000 kWh; rev. $3,881,803. (1896)*

CENTREVILLE, 39631. (Town owns distribution system; leased to Mississippi Power & Light Co. until 1985.)

CLARKSDALE Water & Light Dept., Box 940, 38614, 601/627-4761, Lewis L. Wilkins, supt.; 8,147 met.; gen. 63,000 kW, 23,500 kW gas (steam turbine), 14,000 kW gas (combus. turbine), 25,500 comb. cycle, 38,035,700 kWh; pur. 114,701,400 kWh; rev. $8,580,440. (1900)*

COLLINS, City of, Box 400, 39428, 601/765-4491, Jimmy D. Harvey, 1,050 met.; pur. 16,828,088; rev. $1,206,613.

COLUMBUS Light & Water Dept., Box 949, 39701, 601/328-7195, Reynolds R. Ridgley, gen. mgr.; 11,574 met.; pur. 339,315,371 kWh; rev. $15,913,874. (TVA) (1939)*

DURANT Mun. Utils., 101 West Mulberry, Box 272, 39063, 601/653-3231, R. C. Umphers, supt.; 1,143 met.; no gen.; pur. 16 million kWh; rev. $895,000. (1930)

FAYETTE Light & Water Plant, 36069. (Leased to Mississippi Power & Light Co.)

GREENWOOD Utils., 101 Wright Place, Box 866, 38930, 601/453-7234, C. M. Mathews, mgr.; 9,974 met.; gen. 40,150 kW coal, 13,500 kW gas (steam turbine), 11,250 kW gas (combus. turbine), 116,088,948 kWh; pur. 97.3 million kWh; rev. $11,862,907. (1904)*

HOLLY SPRINGS, City of, Util. Dept., Box 520, 38635, 601/252-4411, I. W. Carpenter, mgr.; 8,296 met.; pur. 162.7 million kWh; rev. $7,603,700. (TVA) (1890)

ITTA BENA, Light & Water, Box 563, 38941, 601/254-7231, James Peeples, supvr.; 1,150 met.; no gen.; pur. 572,773 kWh; rev. $716,000.*

KOSCIUSKO Water & Light Plant, 204 West Jefferson St., 39090-3686, 601/289-1141, Charles E. Burchfield, supt.; 3,127 met.; no gen.; pur. 46,308,885 kWh; rev. $2,591,656. (1919)

LELAND, City of, Drawer 271, 38756, 601/686-4136, Mickey Fratesi, city clerk, 2,510 met.; no gen.; pur. 28,272,000 kWh; rev. $1,827,949.*

LOUISVILLE Utilities, South Columbus Ave.,
Box 71, 39339, 601/773-7147, Tommy Lee Kirkpatrick, mgr.; 3,317 met.; pur. 124,530,006 kWh; rev. $5,768,101. (TVA) (1939)

MACON Elec. Dept., Box 146, 39341, 601/726-5251,
H. L. Ledbetter, supt.; 1,189 met.; pur. 21,054,374 kWh; rev. $1,139,086. (TVA) (1927)

NEW ALBANY Elec. Dept., 100 Cleveland St., Box 236, 38652, 601/534-5021, Harold G. Smith, mgr.; 7,865 met.; pur. 158.8 million kWh; rev. $7,724,773 (TVA) (1934)*

OKOLONA City of, Elec. Dept., Box 111, 38860, 601/447-5482 Frank Westbrook, mgr.; 4,208 met.; pur. 66,913,920 kWh; rev. $3,157,699. (TVA) (1935)

OXFORD, City of, Elec. Dept., Box 827, 38655, 601/236-1310, Tom H. Landrum, supt.; 4,456 met.; pur. 101.8 million kWh; rev. $4,964,894. (TVA) (1896)

PHILADELPHIA Utils., Box 88, 39350, 601/656-1121, John Burt, mgr.; 3,421 met.; pur. 92.7 million kWh; rev. $4,335,979. (TVA) (1939)*

STARKVILLE Elec. Dept., Box 927, 39759, 601/323-3133, Clay R. Campbell, gen. mgr.; 6,988 met.; no gen.; pur. 231.9 million kWh; rev. $10,304,488. (TVA) (1939)

TUPELO, Water & Light Dept., Box 588, 38802, 601/842-6460, Charles F. Hutchison, mgr.; 11,858 met.; no gen.; pur. 397.3 million kWh; rev. $17,475,993. (TVA) (1900)

WATER VALLEY Elec. Dept., Box 231, 38965, 601/473-3326, Vernon Chambers, supt.; 1,904 met.; pur. 63.2 million kWh; rev. $2,834,745. (TVA) (1938)

WEST POINT Elec. System, 331 Washington St., Box 1117, 39773, 601/494-1432, Dewel Brasher, supt.; 3,759 met.; pur. 121.5 million kWh; rev. $5,647,992. (TVA) (1958)

WOODVILLE Light, Water & Gas Plant, 39669. (Leased to Mississippi Power & Light Co.)

YAZOO CITY Pub. Service Comm., Box 660, 39194, 601/746-3741, Robert D. Priest, 5,394 met.; gen. 29,000 kW, 16,500 kW gas (steam turb.), 12,500 gas (comb. turbine), 1,779,000 kWh; pur. 78,076,000 kWh; rev. $5,120,148. (1903)*

MISSOURI

ALBANY Light & Water, 106 E. Clay, 64402, 816/726-3510, Gene Wilson, city admin.; 1,029 met.; gen. 4,165 kW oil-fired eng.; 325,000 kWh; pur. 13.2 million kWh; rev. $639,000.

BETHANY Mun. Water & Light, Box 344, 64424, 816/425-8816, Larry D. Sanders, supt. light & power; 1,743 met.; gen. 3,850 kW oil-fired (eng.), 4,900 kW gas-fired (eng.), 641,980 kWh; pur. 17,544,082 kWh; rev. $1,429,000.

BUTLER Mun., 101 N. Lyons, 64730, 816/679-4013, Don Edmonds, supt., 2,216 met.; gen. 6,125 kW oil (comb. turbine), 371,998 kWh; pur. 20,000,000 kWh; rev. $1,599,787. (1880)

CABOOL City of, 618 Main St., 65689, 417/962-3136, Noah January, city admin.; 970 met.; pur 20,239,979 kWh; rev. $947,767.

CALIFORNIA Bd. of Pub. Wks., 103 E. Versailles, 65018, 314/796-4591, Bill J. Gilbert, supt.; 1,718 met.; no gen.; pur. 21,089,859 kWh; rev. $1,112,328. (1936)

CAMERON, City of, 205-09 N. Main, 64429, 816/632-2177, Luther Zimmerman, 2,209 met.; gen. 2,338 kW oil, eng.; 305,000 kWh; pur. 32,595,600 kWh; rev. $1,810,282. (1924)

CAMPBELL Mun. Light Dept., 202 W. Grand, 63933, 314/246-2541, Randall Baker, city clerk; 1,100 met.; gas and oil gen.

CARROLLTON Mun. Utils, 707 S. Main St., Box 460, 64633, 816/542-0360, L.L. Anderson, supt.; 2,418 met.; gen. 704 kW oil, 21,915 kW dual-fuel (eng.), 3,476,578 kWh; pur. 43,875,200 kWh; rev. $2,755,703. (1941)*

CARTHAGE, Water & Electric Plant, Box 611, 64836, 417/358-5904, David R. Clark, gen. supt.; 5,839 met.; gen. 39,160 kW dual-fuel, 1,822,500 kWh; pur. 124,961,000 kWh; rev. $7,[illegible]44,436. (1898)*

CENTRALIA, City of, Power & Light, 114 S. Rollins St., 65240, 314/682-2139, Alfred J. Figuly, city admn.; 1,581 met.; no gen.; pur. 27,235,200 kWh; rev. $1,177,406. (1916)

CHILLICOTHE Mun. Utils, Box 807, 64601, 816/646-1664, Keith D. Beardmore, gen. mgr.; 4,631 met.; gen. 11,000 kW coal (steam turbine), 33,582,000 kWh; pur. 56,315,000 kWh; rev. $4,711,236. (1911)*

CLARKSVILLE Utils., 111 Howard, Box 528, 63336, 314/242-3553, Kenneth Shuford, supt.; 356 met.; no gen.; pur. 3,616,615; rev. $210,058. (1939)

COLUMBIA, City of, Water and Light, Box N, 65205, 314/874-7325, Richard E. Malon, dir.; 23,219 met.; gen. 38,500 kW coal, 35,000 kW gas, 12,500 gas-fired, 99,187,850 kWh; pur. 407,907,000 kWh; rev. $30,617,400. (1904)*

CRANE Municipal Utils., 120 N. Commerce, Box 17, 65633, 417/723-5990, Jack Swearingen, city supt.; 605 met.; no gen.; pur. 9,743,800 kWh; rev. $540,278. (1963)

CUBA Mun. Utils, 65453, 314/885-7958, Paul D. Dickens, supt.

EL DORADO SPRINGS Bd. of Pub. Wks., 127 W. Spring, 64744, 417/876-2145, Jim Grisham, city supt.; 1,943 met.; no gen.; pur. 30,086,400 kWh; rev. $1,164,235. (1939)

FARMINGTON Light & Power, 110 W. Columbia, 63640, 314/756-2620, Ronald W. Sheppard, supt.; 3,652 met.; no gen.; pur. 53,673,000 kWh; rev. $2,222,006. (1900)*

FAYETTE, City of, 117 S. Main

St., 65248, 816/248-3316, John Bradshaw, city admin., 1,171 met.; gen. 12,950 kW dual-fuel eng. 2,350,000 kWh; pur. 24,000,000, kWh; rev. $1,275,000.(1932)

FREDERICKTOWN City Light & Power, 120 W. Main, 63645, 314/783-2154, Owen J. Slinkard, mgr.; 2,004 met.; no gen.; pur. 27,662,964 kWh; rev. $1,194,919. (1948)*

FULTON Lighting & Power System, Box 142, 65251, 314/642-6655, J.E. Bates, gen. supt.; 4,169 met.; gen. 32,550 kW, 18,000 kW gas turbine, 14,550 kW dual-fuel, 50.4 million kWh; pur. 48.5 million kWh; rev. $3,954,605. (1895)*

GALLATIN Mun. Utils., 112 East Grand, 64640, 816/663-2011, C.R. Bashford, supt. utils.; 1,039 met.; gen. 4,500 kW oil (eng.), 7,000,000 kWh; pur. 13,755,600 kWh; rev. $623,652. (1932)

GALT Mun. Light, Water & Sewer, Rt. 2, Box 112A, 64641, 816/673-6392, Arnold Werteen, supt.; 180 met.; no gen.; sales 2,283,138 kWh; rev. $132,276.

GILMAN CITY Power & Light Plant, 64642, 816/876-5351 or 5230, Larry Hyre, supt.; 200 met.

HANNIBAL Bd. of Pub. Wks., City Hall, 63401, 314/221-0138, Owen Ransdell, gen. supt.; 8,459 met.; pur. 136,872,000 kWh; rev. $4,954,788. (1886)*

HARRISONVILLE Mun. Utils., 64701, 816/884-3285, Don Gragg, dir., pub. wrks.; 2,757 met.; pur. 42.8 million kWh; rev. $1,858,629. (1929)

HERMANN Mun. Utils., 312 Schiller St., 65041, 314/486-5953, Linford H. Thornton, supt.; 1,373 met.; no gen.; pur. 30,459,000 kWh; rev. $1,296,717. (1953)*

HIGGINSVILLE Mun. Utils., Box 110, 64037, 816/584-2106, Russell Ellis, supt. of utilities; 2,167 met.; gen. 4,940 kW, 2,530 kW oil-fired eng., 2,410 kW dual-fuel eng., 1,643,500 kWh; pur. 34,446,540 kWh; rev. $2,113,363. (1904)*

HOUSTON, City of, Elec. Dept. 111 W. Main St., 65483, 417/967-3653, J.P. McDonald, city admin.; 1,075 met.; no gen.; pur. 22,603,200 kWh.; rev. $909,035. (1951).

HUNNEWELL Elec. Dept., 63443, 314/983-2276, Bert Hooper, supt.; 170 met.; no gen.; (1915)

INDEPENDENCE, City of, Power & Light, 21500 E. Truman Road, 64050, 816/796-4400, P.F. Banks, elec. util. dir.; 45,006 met.; gen. 161,000 kW coal (steam turbine), 75,000 kW oil (combus. turbine) 105,000 kW gas (combus. turbine), 578,273,900 kWh; pur. 125,786,000 kWh; rev. $33,769,977. (1901)*

JACKSON City of, 225 S. High St., 63755, 314/243-3568, Carl L. Talley, city adm.; 4,000 met.; gen 1,700 kW oil-fired eng., 17,300 kW dual-fuel; pur. 62,988,000 kWh; rev. $2,294,300.*

KAHOKA Water & Light Dept., 275 N. Washington, 63445, 816/727-3161, Delbert Gilbert, supt.; 1,033 met.; gen.984 kW oil (comb. eng.), 3,350 kW dual-fuel (eng.), 1,792,000 kWh; pur. 11,976,000 kWh; rev. $749,890.

KENNETT Bd. of Pub. Wks., Box 40, 63857, 314/888-2835, Larry V. Jones, supt. of utils.; 4,871 met.; gen. 3,056 kW oil (eng.), 28,850 kW dual-fuel, 1,687,600 kWh; pur. 106,167,000 kWh; rev. $3,560,000. (1942)*

KIRKWOOD City of, 212 S. Taylor Ave., 63122, 314/822-5847, Bob R. Carter, supt.; 10,045 met.; no gen.; pur. 141,687,000 kWh; rev. $7,106,320. (1900)

LAMAR Light and Water Co., 1100 Broadway, 64759, 417/682-5554, J.A. Roberts, city supt.; 2,139 met.; no gen.; pur. 38,499,000 kWh; rev. $1,141,873. (1900)*

LA PLATA Mun. Power and Light, 63549, 816/332-7212, Gayle Perry, supt.; 800 met.; gen. 1,800 kW eng., 122,800 kWh; pur. 7,170,197 kWh. (1938)

LEBANON, City of, 400 S. Madison, Box 111, 65536, 417/532-2156, Bill Lawson, supt.; 4,238 met.; no gen.; pur. 107,212,000 kWh; rev. $4,167,681.

LIBERAL Mun. Light & Water, 64762, 417/843-2135, Neil M. Mooney, supt.; 350 met.; no gen.; pur. 4.3 million kWh; rev. $189,366. (1935)

LOCKWOOD, City of, 107 E. 8th, 65682, 417/232-4221, G.L. Probert, mayor; 556 met.; no gen.; pur. 8,027,200 kWh; rev. $390,827.

MACON Mun. Utils., 121-123 W. Bourke St., Box 569, 63552, 816/385-3173, Paul E. Jensen, gen. supt.; 2,633 met.; gen. 11,700 kW oil-fired, 2.3 million kWh; pur. 53.5 million kWh; rev. $2,306,770. (1890)*

MALDEN Bd. of Pub. Wks., 111 E. LacLede, 63863, 314/276-2238, Wm. Ray Lyons, gen. mgr.; 2,609 met.; gen. 13,800 kW dual-fuel, 45,616,901 kWh; pur. 50,578,545 kWh; rev. $1,718,364. (1952)

MANSFIELD City of, 65704, 417/924-3719, Kenneth Cowell, city supvr.; 625 met.; no gen. (1963)

MARCELINE Mun. Utils., 116 N. Kansas Ave., 64658, 816/376-3528, Robert Engelhard, supt.; 1,350 met.; no gen.; pur. 21,412,800 kWh; rev. $1,162,301.

MARSHALL Mun. Util. 74 E. Arrow St., 65340, 816/886-6966, Thomas F. Hill, gen. mgr.; 5,430 met.; gen. 22,000 kW coal, 4,000 kW gas (steam turbine), 15,000 oil (combus. turbine), 91,714,000 kWh; pur. 44,300,000 kWh; rev. $8,990,648. (1920)*

MEMPHIS, City of, 135 S. Main, 63555, 816/465-2003, Paul C. Luscombe, supt.; 1,298 met.; gen. 6,476 kW dual-fuel (eng.), 657,400 kWh; pur. 13,209,430 kWh; rev. $892,434. (1919)*

MILAN City of, 201 N. Market, Box 247, 63556, 816/265-4411. Edward Sayre, supt.; 965 met.; no gen.; sales 18,324,000 kWh; rev. $916,335.

MINDENMINES Mun. Light Dept., Box 115, 64769, 417/842-3216, Freddie Lee, supt.; 170 met.; no gen.; pur. 1,191,300 kWh; rev. $65,425. (1922)

MONETT City of, 217 5th St., Box 110, 65708, 417/235-3300, Harlan C. Barekman, supt.; 3,205 met.; no gen.; pur. 89,332,800 kWh; rev. $3,843,993. (1893)*

MONROE , City of, 300 N. Main, 63456, 314/735-4441, Kenneth Buckman, elec. supt., 1,275 met.; gen. 8,880 kW dual-fuel, 2,110,550 kWh; pur. 27,746,400 kWh; rev. $1,325,031. (1902)

MOUNT VERNON City of, 319 E. Dallas, 65712,417/466-2122; Jack Swearingen, supt.; 1,597 met.; no gen.; pur. 28,620,000 kWh; rev. $1,118,110. (1938)

NEW MADRID Mun. Light & Power, 560 Mott St., 63869, 314/748-2458; Don Lloyd, city adm.; 1,560 met.; no gen.; pur. 32,107,329 kWh; rev. $972,494. (1938)*

NIXA City of, 106 E. Mt. Vernon, 65714, 417/725-3229, Bill Chitwood, Mayor, 1,124 met., no gen.; pur. 17,138,000 kWh; rev. $494,178. (1967)

ODESSA City of, Box 128, 64076, 816/633-4232, Charles A. Feith, Mayor; 1,317 met.; gen. 7,835 kW, 1,535 kW oil, comb. eng., 6,300 kW dual-fuel eng., 2,167,000 kWh; pur. 24,513,600 kWh; rev. $868,886. (1939)

OSCEOLA Mun. Utils., Box 321, 64776, 417/646-8421, Emalue E. Kinser, clerk; 350 met.; no gen.; pur. 4,687,200 kWh; rev. $349,281. (1971)*

OWENSVILLE City of, Mun. Utils., 109 N. 2nd, 65066, 314/437-2514, Roy Bizzle, supt.; 1,100 met.; gen. 2,110 kW diesel; rev. $880,000.

PALMYRA Mun. Utils., 301 S. Main, 63461, 314/769-2224, William D. Huffman, gen. supt.; 1,673 met.; gen. 1,000 kW oil-fired eng.; 5,370 kW dual-fuel eng.; 2,063,500 kWh; pur. 16,685,400 kWh; rev. $1,016,029. (1912)*

PARIS City of, 124 W. Caldwell St., 65275, 816/327-4334, Ralph Jett, supt.; 796 met.; no gen.; pur. 11,042,000 kWh; rev. $518,658.

PATTONSBURG, City of, Box 206, 64670,816/367-4412, Billy Fleming, actg. supt., 279 met.; no gen.(1934)

PERRY Pub. Utils.,127 E. Main, Box 280, 63462, 314/565-3131, Charles T. Forbis, 350 met.; no gen.; pur. 4,976,400 kWh; rev. $227,623.

PLEASANT HILL Mun. Utils., 203 Paul St., 64080, 816/987-2245, Jerry Barbarick, supt.; 1,575 met.; no gen.; pur. 15,919,200 kWh; rev $1,052,340. (1939)*

POPLAR BLUFF City of, Light and Water-Sewer Depts., 301 S. Main St., 63901, 314/785-5749, James D. Pierce, mgr.; 7,944 met.; gen. 14,000 kW dual-fuel, 440,584 kWh; pur. 170,992,664 kWh; rev. $5,009,341. (1917)*

RICH HILL, City of, Mun. Elec. Plant, Seventh and Walnut Sts., 64779, 417/395-2223, Joy DeTienne, elec. supt.; 796 met.; no gen.; pur. 245,096 kWh; rev. $449,919. (1882)

RICHLAND Mun. Utils., Box 798, 65556, 314/745-3532, John Starmer, supt., 927 met.; no gen.; sales 9,570,328 kWh; rev. $476,384. (1946)

ROCK PORT Bd. of Pub. Wks., 102 W. Clay St., 64482, 816/744-2676, Clayton Chipman, supt.; 1,000 met.; gen. 500 kW oil-fired, 4,750 kW dual-fuel (eng.), 495,800 kWh; pur. 11,700,000 kWh; rev. $584,738. (1932)

ROLLA Mun. Utils.,102 W 9th St., Box 767, 65401, 314/364-1572, James W. Banse, gen. mgr.; 5,501 met.; no gen.; pur. 167,220,000 kWh; rev. $6,139,748. (1945)

ST. JAMES Mun. Utils., 200 N. Bourbeuse, Jefferson St., 65559, 314/265-7011, Kenneth Young, acting supt.; 1,715 met.; no gen.;

pur. 28.9 million kWh; rev. $1,196,517.

ST. ROBERT City of, Elec. Utils., Box 826, 65583, 314/336-3911, Jack Fincher, util. supt.; 675 met.; no gen.; pur. 19,382,613 kWh; rev. $593,273. (1963)

SALEM, City of, Mun. Elec. Lightworks, 3rd & Washington Sts., 65560, 314/729-4117, Jeanne Hollingshead, supvr., bus. oper.; 2,435 met.; no gen.; pur. 32,712,000 kWh; rev. $1,717,236. (1934)

SALISBURY Mun. Utils., 128 W. 2nd St., 65281, 816/388-6197, Gerald Feller, supt.; 1,141 met.; gen. 2,000 kW oil (eng.), 168,000 kWh; pur. 14,802,000 kWh; rev. $880,098.

SHELBINA City of, 63468, 314/588-4104, G.N. Rainey, supt.; 1,135 met.; gen. 3,000 kW dual-fuel, 16,760,000 kWh; pur. 16,512,000 kWh; rev. $910,000.

SIKESTON Bd. of Mun. Utils.,138 N. Prairie, Box 370, 63801, 314/471-3328, E.R. Inman, util. dir.; 7,618 met.; gen. 251,050 kW, 241,250 kW coal, 9,800 kW oil-fired, 1,542,372,640 kWh; pur. 371,448,936 kWh; rev. $55,283,314. (1931)*

SLATER City of, 109 N. Main St., 65349, 816/529-2271, Zack Zoul, city mgr.; 1,260 met.; no gen.; pur. 10,769,154 kWh; rev. $785,848.

SPRINGFIELD City Utils., 301 E. Central St., Box 551, Jewell Station, 65801, 417/831-8311, Robert E. Roundtree, gen. mgr.; 62,682 met.; gen. 550,750 kW, 447,500 kW steam turbine; 103,250 kW gas turbine; 1,339,494,000 kWh; pur. 228,337,000 kWh; rev. $70,432,874. (1945)*

STANBERRY Dept. of Light, Gas & Water, First & Locust St., 64489, 816/783-2725, Sam W. Hatheway, supt., bd. of pub. wks.; 700 met.; gen. 5,108 kW, 226,320 kWh; pur. 7,430,000 kWh; rev. $419,254. (1937)

STEELVILLE, City of, Box M, 65565, 314/775-2181, Virgil L. Robinson, city engr.; 815 met.; no gen.; pur. 12,451,080 kWh; rev. $427,505.

SULLIVAN Mun. Util., 305 N. Park St., 63080, 314/468-4712, Joseph Thurmond; 2,500 met.; no gen.; pur. 52,749,600 kWh; rev. $2,151,812. (1942).

THAYER City of, Second and Market St., 65574, 417/264-3921, Ira Goans, supt.; 855 met.; no gen.; rev. $435,941.

TRENTON Mun. Util., 115 E. 10th, Box 108, 64683, 816/359-2281, Gary Whorton, supt.utils., 3,151 met.; gen. 15,625 kW oil, 3,375 kW dual-fuel (eng.), 2,716,400 kWh; pur. 60,759,000 kWh; rev. $3,477,875. (1937)*

UNIONVILLE Light & Power, 1611 Grant St., 63565, 816/947-2168, Dennie Sheehan, supt.; 1,370 met.; gen. 3,940 kW oil-fired, 2,910 kW dual-fuel, 1.6 million kWh, pur. 12 million kWh; rev. $769,000. (1921)

VANDALIA Bd. of Pub. Wks., 202 E. Park St., 63382, 314/594-3302, Ray Callanan, supt.; 1,523 met.; gen. 6,800 kW oil, 3,531,100 kWh; pur. 12,192,000 kWh; rev. $859,287. (1938)*

WAYNESVILLE Mun. Elec. Util., 201½ North St., 65583, 314/774-6823,Tom Tinsley, supt.; 1,321 met.; no gen.; sales 16,704,189 kWh; rev. $789,764. (1963)

WEST PLAINS City Utils., 1910 Holiday Lane, Box 710, 65775, 417/256-7176, Lowell B. Patterson, city engr.; 4,096 met.; no gen.; pur. 91,951,500 kWh; rev. $3,206,606. (1918)*

MONTANA

LIVINGSTON City of, 414 E. Callender St., 59047, 406/222-6120, ext. 203, Ed Stern, dir.; gen. 325 kW wind; 118,978 kWh; pur. none (city does not distribute electricity); rev. $7,180. (1983)*

NEBRASKA

ALLIANCE Mun. Elec. System, Drawer D, 69301, 308/762-5400, Jim Moravek, city mgr.; 5,950 met.; gen. 7,500 kW coal and/or gas, pur. 89,581,708 kWh; rev. $3,963,845. (1916)*

ANSLEY Mun. Light Dept., Box 37, 68814, 308/935-6811, Richard Amsberry, supt.; 330 met.; gen. 1,600 kW dual-fuel eng.; 200 kW oil-fired eng.; 192,900 kWh; pur. 3,209,154 kWh; rev. $193,541. (1914)

ARAPAHOE Light & Water, 603 Elm St., Box 235, 68922, 308/962-7445, Wesley F. Smith, util. supt.; 671 met., no gen.; pur. 7,000,000 kWh, rev. $441,835. (1921)

ARNOLD Light & Water Plant, Box 462, 69120, 308/848-2228, Arleigh Kincaid, city admr., 650 met.; gen. 1,120 kW oil-fired eng.; 35,000 kWh; pur. 5.8 million kWh; rev. $206,000. (1937)

AUBURN, Bd. of Pub. Works, 1600 O St., Box 288, 68305, 402/274-4981, Lambert K. Blecha, gen. mgr.; 2,673 met.; gen. 727 kW oil, 10,600 kW dual-fuel (eng.) 527,000 kWh; pur. 44,297,000 kWh; rev. $2,116,167. (1939)*

BARTLEY Elec. Dept., Box 177, 69020, 308/692-3213, Melvin Meguire, util. supt.; 200 met.; no gen.; pur. 1.3 million kWh.

BATTLE CREEK Mun. Light & Power Dept., Box 280, 68715, 402/675-2165, Donald Beal, elec. supt.; 597 met.; no gen.; pur 8,488,355 kWh; rev. $406,804. (1948)

BAYARD City Light & Water Dept., Box 160, 69334, 308/586-1121, L. G. Sanchez, supt.; 650 met.; no gen.; pur. 12,210,000 kWh.; rev. $310,116.

BEATRICE, City of, Bd. of Pub. Works, 205 N. 4th St., Box 279, 68310, 402/223-5211, James Bauer, gen. mgr.; 6,560 met.; no gen.; pur. 97,669,311 kWh, rev. $4,206,839. (1947)

BEAVER CITY Mun. Plant, 301 Tenth St., 68926, 308/268-2125, Farrel Bates, utils. supt.; 456 met.; gen. 300 kW oil (combus. eng.),1,760 kW dual-fuel (eng.); 126,800 kWh; pur. 4,403,000 kWh. (1912)

BENKELMAN, City of, Mun. Water & Light Plant, Box 197, 69021, 308/423-2466, Bill Seybold, plant supt.; 665 met.; gen. 900 kW gas (eng.); pur. 7,656,332 kWh; rev. $427,718.

BLUE HILL Elec. Dept., Box 277, 68930, 402/756-3771, Royal Roskilly, supt.; 414 met.; gen. 1,200 kW dual-fuel (eng.); pur. 6,423,566 kWh; rev. $158,473. (1910)

BRADSHAW Elec. Dept., Box 155, 68319, 402/736-4634 B. J. Bartels, util. supt.; 200 met.; no gen.; pur. 2,900,000 kWh.

BRAINARD, Village of, 68626, 402/545-2701, Leon Jacub, supt.; 260 met.; no gen.; rev. $126,108.

BRIDGEPORT Utils., Box 280, 69336, 308/262-0617, Charles E. Brandt Jr., supt.; 1,226 met.; no gen.; pur. 11.6 million kWh; rev. $383,827. (1950s)

BROKEN BOW Mun. Utils., 314 S. 10th Ave.,Box 587, 68822, 308/872-6484, Laverne Martens, util. supt.; 2,300 met.; gen. 8,720 kW dual-fuel eng., 482,800 kWh; pur. 36,000,000 kWh; rev. $1,389,136. (1946)

BURT COUNTY PUBLIC POWER DISTRICT, 613 N. 13th St., Box 209, Tekamah, 68061, 402/374-2631, Raymond Carlson, gen. mgr.; 3,931 met.; no gen.; pur. 88,211,015 kWh; rev. $4,518,712. (1935)

BURWELL Mun. Utils., 8th & H Sts., Box 604, 68823, 308/346-4898, Jerry Hughes, supt.; 750 met.; gen. 10,000 kW eng., 450,000 kWh; pur. 7 million kWh, rev. $405,000. (1922)

BUTLER COUNTY RURAL PUBLIC POWER DISTRICT, 1331 Fourth St.,David City, 68632, 402/367-3081, Richard S. Polak, gen. mgr.; 3,751 met.; no gen.; pur. 64,746,202 kWh; rev. $3,500,465. (1937)

CALLAWAY Mun. Light, Box 157, 68825, 308/836-2262, Larry Nelson, supt.; 375 met.; gen. 900 kW oil-fired eng.; 2,200 kWh; pur. 4,222,723 kWh; rev. $138,542. (1912)

CAMBRIDGE Mun. Light & Water Box 297, 69022, 308/697-3713, Ken Fichtner, supt.; 625 met.; no gen.; pur. 7.4 million kWh.

CAMPBELL Mun. Elec. Dept., Box 215, 68932, 402/756-8111, Greg L'Heureux, supt.; 250 met.; gen. 200 kW eng. (1909)

CEDAR-KNOX PUBLIC POWER DISTRICT, Box 397, Hartington, 68739, 402/254-6291, Jerome B. Litz, gen. mgr.; 4,256 met.; no gen.; pur. 98,856,563 kWh; rev. $4,630,459. (1937)

CENTRAL CITY Elec. Dept., Box 418, 68826, 308/946-3806, Loyal Ruhl, supt.; 1,600 met.; no gen.; pur. 21,513,982 kWh; rev. $959,314 (1909)

CENTRAL NEBRASKA PUBLIC POWER & IRRIGATION DISTRICT (THE), 415 Lincoln St., Box 356, Holdrege, 68949, 308/995-8601, Frank J. Dragoun, gen. mgr.; gen. 108,800 kW gas (steam turbine), 54,000 kW hydro, 290,150,839 kWh; sales 290,150,839 kWh; rev. $6,279,168. (Sells power output to Nebraska Public Power District.)(1933)*

CHAPPELL Mun. Utils., 757 2nd St., 69129, 308/874-2401, Gordon Adkins, supt.; 731 met.; gen. 400 kW dual-fuel (eng.), (standby power); pur. 9,177,000 kWh; rev. $331,337. (1911)

CHESTER, Village of, Box 335, 68327, 402/324-5755, Raymond Wit, 254 met.; no gen.; pur. 2,842,217 kWh; rev. $176,985. (1920)

CHIMNEY ROCK PUBLIC POWER DISTRICT, Box 608, Bayard, 69334, 308/586-1824, Jim Reiber, mgr.; 2,214 met.; no gen.; pur. 37,521,719 kWh; rev. $2,333,315.

CLARKSON, City of, Elec. Dept., 126 W. 2nd St., 68629, 402/892-3100, Ivan D. Hoist, mayor; 430 met.; no gen.; pur. 6,330,000 kWh. (1925)

CORNHUSKER PUBLIC POWER DISTRICT, Highway 81 N.W., Box 9, Columbus, 68601, 402/564-2821, Norman L. Hoge, gen. mgr.; 7,404 met.; no gen.; pur. 166,852,148 kWh; rev. $8,683,716. (1942)

COZAD Bd. of Pub. Wks., Box 65, 69130, 308/784-2090, Lloyd Keller, light comm.; 1,869 met.; no gen.; pur. 54,968,521 kWh; rev. $2,402,494. (1939)

CRETE, City of, Elec. Dept., City Hall, 243 E. 13th St., 68333, 402/826-4311, George G. Beyer, mgr., 2,172 met.; gen. 420 kW oil, 14,857 kW dual-fuel (eng.); pur. 56,173;268 kWh; rev. $3,000,506. (1887)*

CUMING COUNTY PUBLIC POWER DISTRICT, 500 S. Main St., Box 77, West Point, 68788, 402/372-2463, Thomas A. Thomas, gen. mgr.; 2,743 met.; no gen.; pur. 88,527,041 kWh; rev. $4,799,204. (1935)

CURTIS Light & Water, 308 Center Ave., Box 6, 69025, 308/367-4122, Gordon Petersen, supt.; 744 met.; no gen.; pur. 9,128,979 kWh; rev. $481,724. (1913)

CUSTER PUBLIC POWER DISTRICT, Box 10, Broken Bow, 68822, 308/872-2451, John H. Evans, mgr.; 8,047 met.; no gen.; pur. 119,188,582 kWh; rev. $6,512,315. (1944)

DAKOTA CITY Elec. Dept., Box 482, 68731, 402/987-3331, Don McKinney, city admin.; 520 met.; no gen.; pur. 9,498,720 kWh; rev. $341,740. (1910)

DAVENPORT Water & Light, 2nd St., 68335, 402/364-2292, Mervin White, util. supt.; 250 met; no gen.

DAVID CITY Light & Water, 402 5th St., 68632, 402/367-3135, Gene Grubaugh, supt.; 1,335 met.; no gen. pur. 23,022,394 kWh; rev. $1,210,248. (1913)*

DAWSON COUNTY PUBLIC POWER DISTRICT, 300 S. Washington St., Box 777, Lexington, 68850, 308/324-2386, Philip E. Darby Jr., mgr.; 14,945 met.; no gen.; pur. 240,551,154 kWh; rev. $11,963,367. (1937)

DECATUR, Village of, 68020, 402/349-5360, Larry Kellogg, util. supt.; 450 met.

DESHLER Mun. Utils., Box 189, 68340, 402/365-4260, R. G. Koerwitz, city clerk; 481 met.; no gen.; pur. 7,451,600 kWh.

DE WITT Mun. Light & Power Plant, Box 208, 68341, 402/683-5025, Charles McDougall, util. supt.; 360 met.; no gen.; pur. 14,045,768 kWh; rev. $519,000.

DORCHESTER Elec. Dept., Box 287, 68343, 402/946-2281, Leroy A. Vyhnalek, supt.; 300 met.; no gen.; pur. 4 million kWh; rev. $170,000.

DOUGLAS, Village of, 68344, 402/799-2330, Ken Gee, supt.; 200 met.; no gen. (1926)

EDGAR, Light & Water Dept., Box 485, 68935, 402/224-5145, Nelson Hamblin, util. supt.; 385 met.; no gen; pur. 5,047,891 kWh; rev. $188,173.

ELK CREEK Elec. Dept.; 68348, 402/877-2105, A. J. Damm, util. supt.; 92 met.; no gen.; sales 882,320 kWh; rev.$49,116. (1920)

ELKHORN RURAL PUBLIC POWER DISTRICT, Box 310, Battle Creek, 68715, 402/675-2185, Milton Smith, mgr.; 6,233 met.; no gen.; pur. 115,688,096 kWh; rev. $6,019,486. (1939)

EMERSON Mun. Utils., Box 336, 68733, 402/695-2554, David Gradert, elec. supt.; 1,900 kW steam and eng.; 1,957,700 kWh; pur. 2,633,600 kWh; rev. $258,943. (1912)

ENDICOTT Elec. Dept., 68350, 402/729-3404, Clyde Kellie, clerk; 66 met.; no gen.; rev. $37,651.

FAIRBURY Light & Water, 612 D St., 68352, 402/729-3030, Edward R. Brandt, supt.; 3,342 met.; gen. 19,000 kW dual-fuel (steam turbine), standby; pur. 52 million; rev. $2,159,671. (1910)

FAIRMONT Mun. Utils., Box 156, 68354, 402/268-3341, Russell Snodgrass, supt.; rev. $278,365.

FALLS CITY, City of, Utils., 1820 Towle St., 68355, 402/245-2741, Martin R. Gist, city admin.; 2,933 met.; gen. 22,282 kW dual-fuel comb. eng.; 1,960,200 kWh; pur. 44,261,144 kWh; rev. $2,380,888. (1890)

FILLEY Utils., 68357, 402/662-3555, Harold Huls and David Norten, light commissioners; 100 met.; no gen.; pur. 782,100 kWh; rev. $46,779.

FRANKLIN, City of, 619-15th Ave., 68939, 308/425-3326, Jerry Remaly, supt.; 700 met.; gen. 4,080 kW eng.; 40,570 kWh; pur. 8,319,398 kWh; rev. 532,100. (approx.1910)

FRANKLIN COUNTY RURAL PUBLIC POWER DISTRICT, 101 16th Ave., Box 246, Franklin, 68939, 308/425-6217, Arnold Esplund, mgr.; 1,804 met.; no gen.; pur. 22,504,962 kWh; rev. $1,347,228. (1946)

FREMONT, Dept. of Utils., 725 N. Park Ave., 68025, 402/721-2490, Jon K. McCafferty, gen. mgr.; 11,928 met.; gen. 136,000 kW coal, 264,266,100 kWh; pur. 39,922,900 kWh; rev. $13,247,494. (1895)*

FRIEND, City of, 235 Maple St., 68359, 402/947-5251, Robert Moore, supt. of utils.; 609 met.; no gen.; pur. 8,290,000 kWh. rev. $468,884. (1905)

GERING Elec. Dept., 1450 10th St., 69341, 308/436-5096, R.L. Stull, city adm.; 3,304 met.; no gen.; pur. 63,185,702 kWh; rev. $1,821,445. (1934)

GILTNER Mun. Util., Box 254, 68841, 402/849-2845, Tom Lambert, util. supt.; no gen.; rev. $163,475.

GOTHENBURG Public Works Div., 490 9th St., 69138, 308/537-3668, Stan Hite, elec. foreman; 1,500 met.; no gen.; pur. 32.7 million kWh; rev. $1,000,000. (1955)

GRAND ISLAND Elec. Dept., Box 1968, 68802-1968, 308/381-5487, Robert J. Olson, dir. util.; 18,607 met.; gen 207,300 kW, 100,000 kW coal, 92,500 kW gas turbine, 14,800 kW gas (combus. turbine); 228,927,976 kWh; pur. 145,730,100 kWh; rev. $20,196,570. (1905)*

GRANT, Village of, Box 614, 69140, 308/352-2100, John Mathes, util. supt.; no gen.; pur. 11,800,000 kWh; rev. $588,254. (operated by Midwest Electric Membership Corp.)

GREENWOOD Light & Water, Box 86, 68366, 402/789-2300, Edwin D. Koehler, util. supt.; 225 met.; no gen.; pur. 2,659,500 kWh; rev. $117,642.

HAMPTON Elec. Dept., 243 N. 3rd, 68843, 402/725-3186, Robert Schockey, util. supt.; 246 met.; no gen.; pur. 3,066,732 million kWh; rev. $104,763. (1905)

HASTINGS Utils., 1228 N. Denver, Box 289, 68901, 402/463-1371, L.V. Blocker, mgr. of utils.; 11,170 met.; gen. 76,500 kW oil, 54,800 kW gas (steam turbine), 22,000 kW oil (combus. turbine), 124,265,600 kWh; pur. 59,429,336 kWh; rev. 9,888,292. (1901)*

HEBRON Elec. Dept., 216 Lincoln Ave., 68370, 402/768-6322; LaVon Boman, mgr., elec. dept., 950 met.; no gen.; pur. 13.5 million kWh; rev. $550,000.

HEMINGFORD, Village of, Box 395, 69348, 308/487-3465, Jesus Gonzales, supt.; 682 met.; no gen.; pur. 6,043,361 kWh; rev. $353,946. (1956)

HICKMAN, Elec. Dept., Box 127, 115 Locust, 68372, 402/792-2212, Leon Ten Hulzen, supt.; 350 met., no gen.; pur 4,786,721 kWh; rev. $227,828.

HILDRETH Utils., Box 217, 68947, 308/938-2471, Dale Casper, supt.; 212 met.; no gen.; rev. $160,013.

HOLBROOK Mun. Light & Power Plant, Box 148, 68948, 308/493-5653, Don Vonderfecht, supt.; 182 met.; no gen. pur. 1.5 million kWh; rev. $82,580.

HOLDREGE, City of, Box 436, 68949, 308/995-8681, Marvin Paulsen, utils. supt.; 3,111 met.; no gen.; pur. 84,818,594 kWh; rev. $3,405,809. (1919)

HOWARD GREELEY RURAL PUBLIC POWER DISTRICT, 422 Howard Ave., Box 105, St. Paul, 68873, 308/754-4457, Roy L. Olsen, mgr.; 2,538 met.; no gen.; pur. 57,244,980 kWh; rev. $2,785,999. (1938)

HUBBELL, Village of, Elec. Dept., Box 42, 68375, 402/324-4141, Gerald Van Winkle, comm.; 86 met.; no gen.; sales 374,122 kWh; rev. $27,149.

IMPERIAL Mun. Utils., 919 Douglas, 69033, 308/882-5151, Marvin S. Athey, supt. of utils.; 1,108 met.; no gen. (600 kW oil-fired eng., 100 kW hydro standby); pur. 19,716,000 kWh; rev. $676,456.

INDIANOLA, City of, Drawer F, 69034, 308/364-2691, Warren Young, supt.; 380 met.; no gen.; pur. 4,084,000 kWh; rev. $227,356.

KBR RURAL PUBLIC POWER DISTRICT, 374 North Pine, Box 187, Ainsworth, 69210, 402/387-1120, Duane Philben, mgr.; 2,931 met.; no gen.; pur. 43,459,698 kWh; rev. $2,492,773. (1950)

KIMBALL Mun. Utils., 223 S. Chestnut, 69145, 308/235-3639, Robert E. Arraj, dir. pub. works; 1,318 met.; gen. 9,900 kW eng., 15.7 million kWh; rev. $885,479. (1912)*

LAUREL Mun. Elec. Light & Power, 101 W. 2nd St., 68745, 402/256-3112, L. J. Mallatt, city admin.; 616 met.; gen. 3,885 kW dual-fuel eng., 117,000 kWh; pur. 6,751,000; rev. $278,320 (1916)

LEIGH, Village of, Box 277, 68643, 402/487-3303, Reynold Dolesh, util. supt.; 298 met.; no gen.; pur. 4,207,200 kWh; rev. $172,202.

LEXINGTON Elec. Dept., 406 E. 7th St., 68850, 308/324-2343, Pete Bishop, elec. supt 3,400 met.; no gen.; pur. 70,992,492 kWh; rev. $2,514,411 (1945)

LINCOLN Elec. System, 1200 "N" St., Suite 300, 68501, 402/475-4211, Walter A. Canney, adm.; 80,892 met.; gen. 17,250 kW gas, 191,250 kW coal (steam turbine), 65,500 kW oil (combus. turbine), 27,000 kW oil & gas (combus. turbine); 1,320,613,000 kWh; pur. 1,051,558,868 kWh; rev. $91,322,088. (1913)*

LODGEPOLE, Village of, Box 164, 69149, Lloyd R. Dykman, supt.; 217 met.; pur. 7.2 million kWh. (1915)

LOUP RIVER PUBLIC POWER DISTRICT, 2404-15th St., Columbus, 68601, 402/564-3171, Max E. Kiburz, gen. mgr.; 15,470 met.; gen. 48,150 kW hydro, 143,919,000 kWh; pur. 584,924,835 kWh; rev. $22,437,507. (1933)*

LOUP VALLEYS RURAL PUBLIC POWER DISTRICT, 312 S. 15th St., Box 166, Ord, 68862, 308/728-3633, Kenneth W. Clement, mgr.; 3,533 met.; no gen.; pur. 48,840,335 kWh; rev. $2,790,435. (1946)

LYMAN, Village of, Box 301, 69352, 308/787-1444, R.G. Bode, chmn bd. of trustees; 292 met.; no gen.; pur. 2,849,520 kWh; rev. $234,515. (1922)

LYONS Utils., 100 Main St., 68038, 402/687-2130, Paul R. Hayes, supt.; 643 met.; no gen.; pur. 258,686 kWh; rev. $329,808.

MADISON, City of, Box 527, 68748, 402/454-3412, S. Wells Williams, city adm., 958 met.; gen. 690 kW oil, 4,560 kW dual-fuel (eng.), 142,000 kWh; pur. 34,664,486 kWh; rev. $1,513,235. (1901)

McCOOK PUBLIC POWER DISTRICT, Box 739, McCook, 69001, 308/345-2500, James A. Underwood, mgr.; 4,969 met.; no gen.; pur. 139,487,126 kWh; rev. $7,086,800. (1935)

MINDEN Light & Water Comm., 325 N. Colorado Ave., 68959, 308/832-1820, Thomas B. Kenney, city admin.; 1,800 met.; no gen.; pur. 2,698,736 kWh; rev. $1,270,800.

MITCHELL Light & Water, 1444-12th St., 69357, 308/623-2133, 623-2446, Wayne Kautz, supt.; 877 met.; no gen.; pur. 14,246,744 kWh; rev. $475,510. (1934)

MORRILL, Light & Power, Box 305, 69358, 308/247-2312, Mel Morton, dept. head; 859 met.; no gen.; pur. 12,750,000 kWh; rev. $497,361. (est. 1900s)

MULLEN, Village of, Box 187, 69152, 308/546-2829, Eddie Swendner, util. supt.; 400 met.; gen. 1,125 kW diesel oil-fired, 26,050 kWh; pur. 4,660,850 kWh; rev. $213,630. (1957)

NEBRASKA CITY Utils., 100 Central Ave., 68410, 402/873-3353, William T. Brockley, gen. mgr.; 5,278 met.; gen. 30,265 kW dual-fuel (eng.); 30,419,170 kWh; pur. 65,518,032 kWh; rev. $3,732,422. (1944)*

NEBRASKA PUBLIC POWER DISTRICT (formerly Consumers Public Power District), 1414 15th St., Box 499, Columbus, 68601, 402/564-8561, Don E. Schaufelberger, gen. mgr.; 107,609 met.; gen. 3,004,624 kW, 1,674,768 kW coal, 156,300 kW gas, 835,550 kW nuclear; 147,050 kW oil (comb turbine), 40,544 kW oil (eng), 17,374 kW gas (eng), 133,038 kW hydro, 7,635,018,816 kWh; pur. 1,914,089,218; rev. $305,683,543. (1939)*

NELIGH Municipal Power, 68756, 402/887-5042, Eugene Zillig, util. supt.; 1,100 met.; no gen.; rev. $817,000.

NELSON, City of, Mun. Light & Water Dept. Box 327, 68961, 402/225-4401, Virgil Schleif, utils. supt., 378 met.; no gen.; pur. 4,098,014 kWh; $218,748.

NORRIS PUBLIC POWER DISTRICT, 606 Irving St., Box 399, Beatrice, 68310, 402/223-4038, Glen R. Schmieding, gen. mgr.; 11,700 met.; gen. 720 kW hydro; 594,889 kWh; pur. 333,782,273 kWh; rev. $15,401,778. (1933)

NORTH CENTRAL PUBLIC POWER DISTRICT, Box 7, Creighton, 68729, 402/358-5112, Donald G. Elwood, mgr.; 3,558 met.; no gen.; pur. 61,549,127 kWh; rev. $3,329,555. (1945)

NORTHEAST NEBRASKA RURAL PUBLIC POWER DISTRICT, Box 39, Emerson, 68733, 402/695-2642, Cletus J. Temple, gen. mgr.; 2,638 met.; no gen.; pur. 61,762,292 kWh; rev. $2,960,975. (1939).

NORTH PLATTE Mun. Lt. & Power, Box 490, 69103, 308/532-5320, John F. Cox, mgr. bd. of pub. wks.; 13,001 met.; no gen.; pur. 194,866,000 kWh; rev. $8,751,916. (1940)*

NORTHWEST RURAL PUBLIC POWER DISTRICT, Box 249, Hay Springs, 69347, 308/638-4445, Rolland Skinner, gen. mgr.; 2,669 met.; no gen.; pur. 44,013,369 kWh; rev. $3,360,927. (1947)

OMAHA PUBLIC POWER DISTRICT, 1623 Harney St., 68102, 402/536-4000, B. W. Reznicek, gen. mgr.; 219,355 met.; gen. 1,968,078 kW, 1,208,600 kW coal, 445,000 kW nuclear (steam turbine), 83,200 kW oil (steam turbine), 211,800 kW gas (combus. turbine), 19,478 other (steam turbine); 6,302,725,400 kWh; pur. 884,554,400 kWh; rev. $269,205,084. (1946)*

ORD, City of, 200 S. 16th St., 68862, 308/728-3595, Gene Baugh, util. supt.; 1,529 met.; gen. 10,000 kW, sales 18,274,556, rev. $1,040,635. (1916)

OXFORD Mun. Light & Power Box 385, 68967, 308/824-3511, Ronald Ludeke, supt.; 650 met.; no gen

PENDER Elec. Util., 68047, 402/385-3121, Robert Fendrick, supt; 679 met.; rev. $416,194. (1920)

PIERCE Utils, Light & Power, 114 S. Brown, 68767, 402/329-4535, Clarence H. Wattier, mgr.; 1,818 met.; no gen.; pur. 13,722,568 kWh; rev. $655,846. (1941)*

PLAINVIEW Mun. Utils., Box 307, 68769, 402/582-4928, Fred Diedrichsen, utils. supt.; 958 met.; pur. 9.6 million kWh; rev. $467,000. (1910)

POLK Light & Water Works, 68654, 402/765-6471, Arnold L. Neuhaus, supt.; 250 met.; no gen.; pur. 320,080 kWh; rev. $146,931. (1906)

POLK COUNTY RURAL PUBLIC POWER DISTRICT, 120 W. 4th St., Stromsburg, 68666, 402/764-4381, Merlin Steele, mgr.; 2,409 met.; no gen.; pur. 49,013,920 kWh; rev. $2,371,131. (1936)

PRAGUE Elec. Dept., 68050, 402/663-5235, Robert Koranda, light comm.; 180 met.; no gen.; pur. 1.8 million kWh.

RANDOLPH Mun. Light Plant, Box 220, 68771, 402/337-0567, LeRoy Brummels, supt.; 662 met.; gen. 2,400 kW dual-fuel eng., 122,700 kWh; pur. 5,618,789 kWh; rev. $254,419. (1917)

RED CLOUD Mun. Light and Power, 540 N. Webster, 68970, 402/746-2214, Kenneth P. Schwartz, supt. of utils.; 829 met.; gen. 6,500 kW dual-fuel eng.; 456,782 kWh; pur. 10,118,830 kWh; rev. $423,190. (1912)

REYNOLDS, Village of, 68429, 402/324-3135, Don Gregory, utils. supt.; 68 met. (1923)

ROOSEVELT PUBLIC POWER DISTRICT, Box 97, Mitchell, 69357, 308/623-2124, H. F. Moranville, mgr.; 2,386 met.; no gen.; pur. 41,948,131 kWh; rev. $2,245,827. (1935) (Includes former Gering Valley Rural Public Power District.)

ST. PAUL, City of, Utils., 522 Howard Ave., 68873, 308/754-4483, Charles M. Schmid, city supt.; 1,088 met.; no gen.; pur. 12,571,821 kWh; rev. $782,145.

SARGENT, City of, Box 40, 68874, 308/527-4200, Robert Gruber, supt.; 460 met.; 2,488 kW dual-fuel eng., 831,800 kWh; pur. 4,743,371; rev. $256,455.

SCHUYLER Dept. of Utils, 124 E. 11th St., 68661, 402/352-5444, Fred Ayers, utils. supt.; 2,166 met.; pur. 70,657,541 kWh; rev. $2,464,558. (1892)*

SEWARD, City of, Mun. Elec. Light Dept., Box 69, 7th St., 68434, 402/643-2927, Lawrence Fiala, elec. supt.; 2,518 met.; no gen.; pur. 44,001,286 kWh; $2,203,687. (1921)

SEWARD COUNTY RURAL PUBLIC POWER DISTRICT, Box 69, Seward, 68434, 402/643-3434, Ron D. Holsteen, mgr.; 2,506 met.; no gen.; pur. 44,621,269 kWh; rev. $2,470,877. (1938)

SHICKLEY, Village of, Utils., 68436, 402/627-2055, Earl Frieden, board chairman; 214 met.; no gen.; pur. 1,585,277 kWh; rev. $176,520. (1923)

SIDNEY, City of, 1115-13th Ave., 69162, 308/254-5300; 2,998 met.; gen. 7,550 kW dual-fuel (eng.), 700 kW oil (eng.); 266,900 kWh; pur. 34,288,800 kWh; rev. $1,524,214. (1942)*

SNYDER Elec. Dept., 68664, 402/568-2306, Marvin M. Mead, supt., 193 met.; no gen.; pur. 4,905,613 kWh; rev. $180,516. (1910)

SOUTH CENTRAL PUBLIC POWER DISTRICT, Box 406, Nelson, 68961, 402/225-2351, Yale

A. Meyer, mgr.; 3,996 met.; no gen.; pur. 92,199,992 kWh; rev. $4,403,206. (1961)

SOUTH SIOUX CITY Utils., 1615 1st Ave., 68776, 402/494-5800, Bill Bradish, elec. supt.; 3,945 met.; no gen.; pur. 74,951,471 kWh; rev. $3,736,378. (1896)

SOUTHERN NEBRASKA RURAL PUBLIC POWER DISTRICT, Box 1687, Grand Island, 68802. 308/384-2350, Charles J. Hoke, gen. mgr.; 16,711 met.; no gen.; pur. 396,684,565 kWh; rev. $18,661,979. (1937)

SOUTHWEST PUBLIC POWER DISTRICT, 221 N. Main, Palisade, 69040, 308/285-3295, Donald H. Husted, gen. mgr.; 4,974 met.; gen. 331 kW oil (eng.); 1,600 kWh (standby); pur. 107,152,933 kWh; rev. $5,933,675. (1954)

SPALDING Mun. Light & Power Co., 68665, 308/497-2661, Paul F. Semper, supt.; 463 met.; gen. 2,293 kW, 2,153 kW oil-fired eng., 140 kW hydro, 744,339 kWh; pur. 5,170,118 kWh; rev. $159,337. (1954)

SPENCER, Village of, Mun. Lt. & Pwr., Box 15, 68777, 402/589-1130, Lyle Karnes, lt. & wtr. comm.; 340 met.; no gen.; pur. 4,825,843 kWh; rev. $212,400:

STANTON COUNTY PUBLIC POWER DISTRICT, Box 308, Stanton, 68779-0308, 402/439-2228, George E. Cunningham, mgr.; 1,548 met.; no gen.; pur. 31,980,466; rev. $1,694,749.(1936)

STRATTON Water & Light Dept., Box 116, 69043, 308/276-2184, Mike Petersen, utils. supt.; 300 met.; no gen.; pur. 3,589,438 kWh; rev. $195,275.

STROMSBURG Light and Water Dept., 122 E. 3rd, 68666, 402/764-2561, M.D. Simpson, supt., 610 met.; no gen.; pur. 7,665,708, rev. $381,516.

STUART Mun. Water & Power, Box 177, 68780, 402/924-3977, M. A. Jauernig, supt.; 320 met.; gen. 1,328 kW, 653 kW oil-fired eng., 675 kW dual-fuel eng., kWh none; 1.4 million kWh; pur. 4,355,000 kWh; rev. $176,000. (1922)

SUPERIOR Utils., City of, 135 W. 4th St., Box 160, 68978, 402/879-4711, Richard Elliott, dir. pub. wks.; 1,497 met.; no gen.; pur. 26,288,875 kWh; rev. $1,249,247 (1941)

SUTTON Light & Power Plant, Box 437, 68979, 402/773-5501, Rolly Kastens, comm.; 750 met.; no gen.

SYRACUSE Utils., 578 Mohawk, 68446, 402/269-2173, Donald L. Block, util. supt.; 841 met.; no gen.; pur. 12,859,652 kWh; rev. $628,832. (est. 1930s)

TALMAGE Elec. Dept. City Hall, Box 198, 68448, 402/264-3825, Melvin Howe, supt.; 212 met.; no gen.; pur. 1.9 million kWh; rev. $42,970.

TECUMSEH, City of, 122 S. 4th St., 68450, 402/335-3570, LaVerne Martens, supt.; 983 met.; gen. 4,600 kW; sales 21 million kWh; rev. $939,000 (Plant leased to Omaha Public Power District.) (1890)

TRENTON Mun. Light & Power, 223 W. C St., 69044, 308/334-5474, Barney L. Whatley, supt.; 450 met.; gen. 880 kW eng., 1.1 million kWh; pur. 1.1 million kWh; rev. $59,039.

TWIN VALLEYS PUBLIC POWER DISTRICT, Box 160, Cambridge, 69022, 308/697-3315, Paul Liess, gen. mgr.; 4,461 met.; no gen.; pur. 59,026,176 kWh; rev. $3,335,258. (1944)

UNIVERSITY OF NEBRASKA Utility Plant, 14th & Avery St., Lincoln, 402/472-3131, 68588, Douglas Schmidt, supt.; gen. 6,000 kW steam, 13,574,000 kWh; pur. 87,539,800 kWh.*(1934)

VALENTINE, City of, 69201, 402/376-2323; Norma Jean New, city mgr.; 1,800 met., no gen.; pur. 34 million kWh; rev. $1,717,939.

WAHOO City of, 605 N. Broadway, 68066, 402/443-3222, Donald Peterson, lt. and water comm.; 1,880 met.; 500 kW oil, 13,805 kW dual-fuel; 100,400 kWh; pur. 31,250,356 kWh; rev. $1,259,305. (1908)*

WAKEFIELD City Light Plant, 303 Oak St., Box 179, 68784, 402/287-2080, Larry Lueth, supt.; rev. $595,946. (1917)

WALTHILL Mun. Elec. Dept., 68067, 402/846-5921, Henry L. Johnson, supt.; 400 met.; no gen.; pur. 5,063,927 kWh; rev. $277,487.

WAUNETA Mun. Utils., Box 95, 69045, 308/394-5201, Dennis Decker, supt.; 549 met.; pur. 8.2 million kWh; rev. $182,275. (1948)

WAYNE Mun. Power Plant, 208 S. Main, 68787, 402/375-2866, Herman Wacker, supt., 1,994 met.; sales 29,480,996; rev. $1,142,000. (1920)*

WAYNE COUNTY PUBLIC POWER DISTRICT, 303 Logan, Box 190, Wayne, 68787, 402/375-1360, E. A. Schroeder, mgr.; 2,670 met.; no gen.; pur. 53,041,212 kWh; rev. $2,555,837. (1939)

WEST POINT Light & Water Works, 444 S. Main, 68788, 402/372-2466, Ralph Eby, city engr.; 1,725 met.; gen. 8,565 kW dual-fuel (standby); sales 25,814,292 kWh; rev. $1,028,938. (1922)*

WHEAT BELT PUBLIC POWER DISTRICT, Box 177, Sidney, 69162, 308/254-5871, Gene M. Lienemann, gen. mgr.; 4,003 met.; no gen.; pur. 112,005,821 kWh; rev. $6,875,886. (1947)

WILBER Utils., 324 N. Main, 68465, 402/821-3233, Nelson Behrens, supt.; 800 met.; pur. 11.7 million kWh; rev. $369,438. (about 1900)

WILCOX Light & Water Comm., 68982, 308/478-5510, Merle Ortegren, util. supt.; 211 met.; no gen.; pur. 3,600,000 kWh; rev. $110,937.

WINSIDE, Village of, Box 206, 68790, 402/286-4422, Dennis Van Houten, maint. supt.; 250 met.; no gen.; pur. 2,648,970 kWh; rev. $103,871. (1915)

WISNER Light & Water Dept., 1115 Ave. E, Box 367, 68791, 402/529-3383, Roland Johnson, util. supt. 724 met.; gen. 1,905 kW oil-fired eng.; pur. 11,936,448 kWh; rev. $364,743. (1905)

WOOD RIVER, City of, Box 253, 68883, 308/583-2515, Wayne Woods, supt.; 445 met., no gen.; pur. 8,118,733 kWh; rev. $399,748.

WYMORE, City of, 115 W. E St., 68466, 402/645-3377, John Sullivan, supt.; 910 met.; no gen.; pur. 9,572,735 kWh; rev. $323,210.

YORK COUNTY RURAL PUBLIC POWER DISTRICT, Hwy. 81 So., York, 68467, 402/362-3355, Hilary Neesen, gen. mgr.; 3,572 met.; no gen.; pur. 81,068,177 kWh; rev. $4,374,237. (1938)

The following Nebraska communities own their own municipal electric systems which are operated by Nebraska Public Power District under lease agreements:

ABIE, ADAMS, AINSWORTH, ALDA, ALLEN, ANOKA, ARCADIA, ASHTON, ATKINSON, ATLANTA, AURORA, AXTELL, BANCROFT, BARADA, BASSETT, BAZILE MILLS, BEAVER CROSSING, BEE, BEEMER, BELDEN, BELLWOOD, BELVIDERE, BENEDICT, BERTRAND, BIG SPRINGS, BLADEN, BLOOMINGTON, BLUE SPRINGS, BOELUS, BRADY, BRISTOW, BROADWATER, BRULE, BRUNING, BRUNO, BRUNSWICK, BURCHARD, BUTTE.

CAIRO, CARLETON, CENTER, CHADRON, CHAPMAN, CLARKS, CLATONIA, CLAY CENTER, CLEARWATER, CLINTON, CODY, COLFRIDGE, COMSTOCK, CONCORD, CORDOVA, CORTLAND, CRAIG, CRAWFORD, CREIGHTON, CROFTON, CROOKSTON, CUSHING, DAWSON, DAYKIN, DEWEESE, DIXON, DODGE, DONIPHAN, DUBOIS, DWIGHT, EDISON, ELBA, ELGIN, ELM CREEK, ELSIE, ELWOOD, EMMET, EUSTIS, EWING, EXETER, FAIRFIELD, FIRTH, FORDYCE, FUNK, GARLAND, GENEVA, GIBBON, GOEHNER, GORDON, GRAFTON, GREELEY, GRESHAM, GUIDE ROCK, HALLAM, HARDY, HARTINGTON, HARVARD, HAY SPRINGS, HEARTWELL, HENDERSON, HENDLEY, HOMER, HORDVILLE, HOSKINS, HUBBARD, HUMBOLDT, HUNTLEY, INMAN, JACKSON, KEARNEY, KENESAW, KILGORE.

LAWRENCE, LEWELLEN, LONG PINE, LOOMIS, LOUP CITY, LUSHTON, LYNCH, MCCOOK, MCCOOL JUNCTION, MCGREW, MCLEAN, MADRID, MAGNET, MARQUETTE, MARTINSBURG, MASKELL, MEADOW GROVE, MELBETA, MERRIMAN, MILFORD, MILLER, MILLIGAN, MINATARE, MURRAY.

NAPONEE, NEHAWKA, NENZEL, NEWCASTLE, NEWPORT, NORA, NORFOLK, NORTH LOUP, OAK, OAKDALE, OAKLAND, OBERT, OGALLALA, OHIOWA, O'NEILL, ONG, ORCHARD, ORLEANS, OSCEOLA, OSHKOSH, OSMOND, OVERTON, PAGE, PALMER, PAWNEE CITY, PHILLIPS, PICKRELL, PILGER, PLATTSMOUTH, PLEASANT DALE, PLYMOUTH, PONCA.

RAVENNA, REPUBLICAN CITY, RISING CITY, RIVERTON, ROYAL, RUSHVILLE, RUSKIN, SARONVILLE, SCOTIA, SCOTTSBLUFF, SCRIBNER, SHELBY, SHELTON, SHUBERT, SILVER CREEK, STAMFORD, STAPLEHURST, STEINAUER, STELLA, STERLING, STRANG, SURPRISE, SUTHERLAND, SWANTON.

TABLE ROCK, TAMORA, TEKAMAH, THAYER, TILDEN, TOBIAS, UEHLING, ULYSSES, UNION, UTICA, VALPARAISO, VENANGO, VERDON, VIRGINIA, WACO, WATERBURY, WAUSA, WESTERN, WHITNEY, WINNEBAGO, WINNETOON, WOLBACH, WYNOT, YORK.

The following Nebraska communities own their own municipal electric systems which are operated by Loup Power District under lease agreements:

ALBION, BELGRADE, CEDAR RAPIDS, COLUMBUS, CORNLEA, CRESTON, DUNCAN, FULLERTON, GENOA, HOWELLS, HUMPHREY, LINDSAY, MONROE, NEWMAN GROVE, PETERSBURG, PLATTE CENTER, PRIMROSE, RAEVILLE, RICHLAND, ST. BERNARD, ST. EDWARD, TARNOV.

Dannebrog's system is leased to Howard Greely Rural PPD, *Paxton's to Midwest Electric Membership Co-op in Grant, Salem's to Omaha* PPD, *Stanton's to Stanton County* PPD *and Stockham's to Southern Nebraska Rural* PPD.

NEVADA

ALAMO POWER DISTRICT NO. 3, Box 189, Alamo, 89001, 702/725-3335, Douglas J. Miller, mgr.; 431 met.; no gen; pur. 8,758,222 kWh; rev. $210,413. (1942)

BOULDER CITY, City of Elec. Dist. Dept., 900 Arizona St., 89005, 702/293-4300, Terry Zerkle, city mgr.; 3,400 met.; no gen.; pur. 85.5 million kWh; rev. $1,276,000. (1960)

CALIENTE Pub. Utils., City Hall, Box 150, 89008, 702/726-3782, Glenn Van Roekel, pub. wks. dir.; no gen. (1943)

COLORADO RIVER COMMISSION OF NEVADA, Box 19090, Las Vegas, 89132-0090, 702/739-1902, Duane R. Sudweeks, dir.; no gen.; 11 wholesale customers, sales 1.3 billion kWh; rev. $16 million.

FALLON Mun. Elec. System, 55 W. Williams Ave., 89406, 702/423-5107, Ben T. Bartlett, P.E., city mgr.; 2,395 met.; no gen.; pur. 33,378,000 kWh; rev. $2,496,145. (1911)*

LINCOLN COUNTY POWER DIST. No. 1, SR 89063, Box 101, Pioche, 89043, 702/962-5122, William F. Lynch, mgr.; 95 met; no gen.; pur. 82,759,286 kWh; rev. $931,063. (1936)

MINERAL COUNTY POWER SYSTEM, Box 1457, Hawthorne, 89415, 702/945-2446, Martha Barlow, County Clerk, (System leased to Sierra Pacific Power Co. until year 2000.)

OVERTON POWER DISTRICT NO. 5, 261 S. Jones St., Box 395, Overton, 89040, 702/397-2512, A. Kent Bloomfield, mgr.; 2,181 met.; no gen.; pur 80,211,979 kWh; rev. $1,857,000. (1939)

PIOCHE Pub. Util., Box 31, 89043, 702/962-5840, Patrick Kelly; 300 met.; no gen.; pur. 6,522,000 kWh; rev. $110,000.

TRUCKEE-CARSON IRRIGATION DISTRICT, 152 N. Maine, Fallon, 89406, 702/423-2141, Richard Lattin, mgr.; (Electrical system leased to Sierra Pacific Power Co.)

NEW HAMPSHIRE

ASHLAND, Town of, Elec. Dept., 10 Highland St., Box 517, 03217, 603/968-3083, Thomas E. Marsh, supt.; 919 met.; gen. 80 kW hydro, 301,844 kWh; pur. 15,624,000 kWh; rev. $1,169,438. (1917)

LITTLETON Water & Light Dept., 30 Lafayette Ave., 03561, 603/444-2915, John L. Cassidy, supt.; 2,984 met.; no gen.; pur. 38,474,000 kWh; rev. $2,510,748. (1903)

NEW HAMPTON Village Precinct, 03256, 603/744-3517, Ralph Ness, mgr.; 170 met.; no gen.; pur. 2,001,531 kWh; rev. $147,370. (1914)

WOLFEBORO Mun. Elec. Dept., Box 629, 03894, 603/569-1246, Guy L. Krapp, mgr.; 3,806 met.; gen. 109,300 kWh; pur. 32,988,000 kWh; rev. $2,266,109. (1897)

WOODSVILLE Water & Light Dept., 3 N. Court St., 03785, 603/747-2442, Hayden Waterhouse, supt.; 1,221 met.; no gen., pur. 10,880,490 kWh; rev. $499,375. (1922)

NEW JERSEY

BUTLER Light Dept., 10 High St., 07405, 201/838-7200, Robert P. Hammer, adm.; 7,446 met.; no gen.; pur. 4,342,370 kWh; rev. $6,975,458. (1942)

LAVALLETTE Elec. Dept., Washington Ave., 08735, 201/793-7766, Carl F. Ohm, supt.; 2,500 met.; no gen.; rev. $790,218. (1927)

MADISON Water & Light Dept., Kings Road, 07940, 201/377-8000, James Allison, borough adm.; 5,600 met.; no gen.; pur. 79,748,000 kWh; rev. $6,073,000. (1900)*

MILLTOWN Elec. Dept., 39 Washington Ave., 08850, 201/828-2100, G. R. Newman, supt.; 2,573 met.; no gen.; pur. 37,036,800 kWh; rev. $2,556,481.

PARK RIDGE Elec. Dept., 53 Park Ave., 07656, 201/391-2113, Robert F. Kenney, supt.; 3,061 met.; no gen.; pur. 36,672,000 kWh; rev. $2,467,056. (1904)*

PATERSON Municipal Utilities Authority, 100 Hamilton Plaza, 07505, 201/881-3368, John Topalian, atty. (Authority established in 1981 to rehabilitate hydro project on Passaic River.)

PEMBERTON, Borough of, Elec., 114 Hanover St., 08068, 609/894-8222, Harold Beck Sr., supt.; 500 met.; no gen.; pur. 5,880,000 kWh; rev. $480,000. (1921)

SEASIDE HEIGHTS Borough Elec., 328 Grant Ave., 08751, 201/793-0359, Leonard Ipri, supt.; 3,200 met.; no gen.

SOUTH RIVER Bd. of Pub. Works, 33 Gordon St., 08882, Thomas Noto, supt.; 6,767 met.; gen. 2,500 kW eng.; pur. 40 million kWh; rev. $1,953,728.

VINELAND, City of, Elec. Util., Seventh and Wood Sts., 08360, 609/691-3000, ext. 460, Michael Sesok Jr., gen. mgr. of mun. utils.; 15,951 met.; gen. 110,050 kW, 27,200 kW coal, 49,250 kW oil, 33,600 kW oil (comb. turbine); 209,186,480 kWh; pur. 136,722,000 kWh; rev. $23,641,488. (1900)*

NEW MEXICO

AZTEC, City of, 201 W. Chaco, 87410, 505/334-9456, Rolfe Wagner, city mgr.; 2,199 met.; gen. 1,600 kW gas; pur. 20,972,670 kWh; rev. $1,045,533. (1956)*

CLAYTON Power Plant, 1 Chestnut St., 88415, 505/374-2711, Eli H. Garcia, city mgr.; 1,700 met.; gen. 6,150 kW dual-fuel eng., 16,117,800 kWh; pur. none; rev. $1,031,265. (1912)

FARMINGTON Elec. Util. System, Box 900, 87401, 505/327-7701, Wm. C. Lewis, elec. util. dir.; 26,191 met.; gen. 40,000 kW coal, 30,000 kW gas (steam turbine), 1,750 kW oil, 650 kW gas (combus. turbine), 200 kW hydro; 25,630,000 kWh; pur. 252,650,000 kWh, rev. $29,678,000. (1964)*

GALLUP City of, Box 1270, 87301, 505/863-6871 ext. 289, Paul McCollum, city mgr.; 7,682 met.; no gen.; pur. 158,899,328 kWh; rev. $9,071,428. (1941)*

LOS ALAMOS County Utils., Box 30, Los Alamos, 87544, 505/662-8130, James Harder, util. mgr.; 5,035 met.; no gen.; pur. 53,070,000 kWh; rev. $3,615,130. (1967)*

RATON Pub. Service Co., 224 Savage Ave., Box 40, 87740, 505/445-9861, Nardi Gabriele, gen. mgr.; 3,945 met.; gen. 11,250 kW coal (steam); 32,761,300 kWh; pur. 17,912,511 kWh; rev. $2,565,755. (1919)*

SPRINGER Elec. Dept., Box 488, 87747; 505/483-2682, Henry Arellano, city mgr.; 2,000 met.; no gen.; rev. $209,526.

TRUTH OR CONSEQUENCES, City of, Joint Util. system, 605 Sims St., 87901, 505/894-6674, Quentin Drunzer, city mgr.; 2,983 met.; no gen.; pur. 28,711,330 kWh; rev. $1,097,797. (1934?)

NEW YORK

AKRON Mun. Elec. Util., 21 Main St., Box 180, 14001, 716/542-9636, or 542-9604, Donald J. Whiting, mayor; 1,299 met.; no gen.; pur. 31,788,600 kWh; rev. $752,252. (1903)*

ANDOVER, Village of, Elec. Dept., 4 Main St., Box 721, 14806, 607/478-8455, Maynard Towner, supt.; 535 met.; no gen.; pur. 5,337,500 kWh; rev. $134,818. (1913)

ANGELICA, Village of, 14709, 716/466-7431, Paul Hollier, ofc. mgr.; 592 met.; no gen.; sales 6,350,000 kWh, rev. $155,676. (1930)

ARCADE Mun. Elec. Dept.; 17 Church St., 14009, 716/492-1590, Howard W. Payne, supt. pub. wks.; 3,095 met.; no gen.; pur. 107,966,612 kWh; rev. $1,313,123. (1909)*

BATH Elec., Gas & Water Systems, Drawer 310, 14810, 607/776-3072, W.N. Wrinkle, dir.; 4,125 met.; no gen.; pur. 60,581,800 kWh; rev. $1,607,926. (1915)*

BERGEN Mun. Elec., 16 N. Lake St., 14416, 716/494-1513, Benjamin Zuber, mayor;, 505 met.; no gen.; pur. 12,824,500 kWh; rev. $389,741. (1909)*

BOONVILLE Mun. Comm. of, Box 59, 13309, 315/942-4461, John W. Gilbert, supt.; 2,333 met.; no gen.; pur. 47,852,300 kWh; rev. $1,438,905. (1903)*

BROCTON Village of, 34 W. Main St., 14716, 716/792-4160, Rick Manzella, foreman; 704 met.; no gen.; pur. 10,067,700 kWh; rev. $163,947. (1904)

CASTILE Village of, Elec. Sys., 51 N. Main St., Box 179, 14427, 716/493-5340, Lynn D. Washburn, supt.; 566 met.; no gen.; pur. 5,944,904 kWh; rev. $177,725. (1903)

CHURCHVILLE Village of, 9 E. Buffalo St., Box M, 14428, 716/293-3720, Ronald J. Trinkl, village supt., 640 met.; no gen.; sales 11,371,825 kWh; rev. $319,665. (1921)*

ENDICOTT Mun. Light Plant, Municipal Plaza, 1009 E. Main St., 13760, 607/754-2450, Clark Vallequette, exec. sec'y; 2,849 met.; no gen.; pur. 42,240,835 kWh; rev. $1,019,334. (1906)*

FAIRPORT Mun. Comm., Box 500, 14450,716/223-9500, Robert N. Vaisey, gen. mgr., 11,349 met.; no gen.; pur. 278,015,000 kWh; rev. $6,928,294. (1901)*

FRANKFORT Mun. Elec., 107 W. Main St., 13340, 315/894-8811, John S. Migliore, supt.; 1,571 met.; no gen.; pur. 14,819,000 kWh; rev. $373,378. (1960)

FREEPORT Mun. Elec. Util., 46 N. Main St., 11520, 516/378-4000, Ludovic Long, supt. elec. utils., 13,807 met.; gen. 55,638 kW; 18,180 kW oil (gas combus. turbine); 37,458 kW oil (Int. combus. eng.) 9,308,080 kWh; pur. 187,132,000 kWh; rev. $12,171,125. (1896)*

GOUVERNEUR, Village of, Municipal, 33 Clinton St., 13642, 315/287-1770, Ronald Cochrane, supt.; gen. 160 kW hydro. (1923)

GREENE, Village of, Elec. Dept., Box 207, 13778, Harvey Stalker, elec. supt.; 1,124 met.; no gen.; pur. 26,429,000 kWh; rev. $835,914

GREEN ISLAND Elec. Light Dept., 20 Clinton St., 12183, 518/273-2201, John W. Demarest, supt.; 1,186 met.; no gen.; pur. 8,140,700 kWh; rev. $286,169. (1895)

GREENPORT Mun. Elec. Light Plant, 236 Third St., 11944, 516/477-1748, James I. Monsell, supt.; 1,668 met.; gen. 6,100 kW dual-fuel; 357,000 kWh; pur. 17,866,000 kWh.; rev. $1,123,353. (1899)*

GROTON, Mun. Elec., 108 Cortland St., 13073, 607/898-3001, Edward Smith, supt., 813 met.; no gen.; sales 15,525,330 kWh; rev. $278,770. (1933)

HAMILTON Mun. Power System, Village Office, 3 Broad St.,Box 119, 13346, 315/824-1111, John Rathbone, village engr.; 1,404 met.; no gen.; pur. 41,185,000 kWh; rev. 1,493,855. (1895)*

HOLLEY Elec. & Water Dept., 7 Franklin St., 14470, 716/638-6367, Raymond E. Neale, supt.; 828 met.; no gen.; pur. 15.5 million kWh; $241,024.

ILION Bd. of Light Comm., Municipal Bldg.,49 Morgan St., 13357, 315/894-8708, Kevin J. Manfreda, supt.; 3,838 met.; no gen.; pur. 51,835,229 kWh; rev. $1,561,641. (1901)*

JAMESTOWN Bd. of Pub. Util.,Box 700, 14702, 716/661-2385, James S. Pullan, gen. mgr., 19,655 met.; gen. 50,000 kW coal, steam, 228,126,970 kWh; pur. 220,613,560 kWh; rev. $10,339,555. (1891)*

LAKE PLACID Mun. Elec., 301 Main St., 12946, 518/523-2021, Charles White, supt.; 2,897 met.; no gen.; pur. 81,900,800 kWh; rev. $2,988,226. (1906)*

LITTLE VALLEY, Village of, Mun. Elec., Municipal Bldg., 14755, 716/938-9151, LeRoy J. Hamilton, elec. dept. supvr.; 1,141 met.; no gen.; pur. 17,223,380 kWh; rev. $467,569. (1896)*

MARATHON, Village of, Lighting Plant, 18 Tannery St., 13803, 607/849-6795, David K. Light, mayor; 750 met.; no gen.; pur. 15,047,000 kWh; rev. $414,055 (1901)

MASSENA Elec. Dept., Box 209, 13662, 315/764-0253, Clifford G. Engstrom, gen. mgr.; 8,070 met.; no gen.; pur. 97,851,051 kWh; rev. $4,649,855. (1981)*

MAYVILLE Elec. Light Dept., Box 188, 14757, 716/753-2125, Ray Frost, supt. (1896)*

MOHAWK Mun. Comm., 28 Columbia St., 13407, 315/866-4170, William D. Wainwright, util. supt., 1,231 met.; no gen.; pur. 19,147,300 kWh; rev. $587,599. (1904)*

NEW YORK POWER AUTHORITY, 10 Columbus Circle, New York, N.Y., 10019, 212/397-6200, Leroy W. Sinclair, pres.; 152 met.; gen. 6,889,000 kW, 883,000 kW oil (steam turbine), 4,110,000 kW hydro, 1,896,000 kW nuclear, 30,235,755,000 kWh; pur. 9,542,605,200 kWh, rev. $1,195,164,011. (1931)*

PENN YAN Mun. Bd., 2 Maiden Lane, 14527, 315/536-3374, Wesley G. Ryder, utils. mgr.; 2,679 met.; no gen.; pur. 44,575,200 kWh; rev. $1,232,302. (1905)*

PHILADELPHIA Mun. Elec. System, 56 Main St., 13673, 315/642-3452, Bernard A. Rosbrook, supt.; 370 met.; no gen.; pur. 7,342,000 kWh; rev. $202,951. (1906)

PLATTSBURGH Mun. Lighting Dept., 6 Miller St., 12901, 518/563-2200, George D. Reich, mgr.; 7,976 met.; no gen.; pur. 454,982,446 kWh; rev. $8,486,216. (1941)*

RICHMONDVILLE Power & Light, 22 E. Main St., 12149, 518/294-7700, Bruce Stevens, supt.; 832 met.; no gen.; pur. 8,450,409 kWh; rev. $277,969. (1918)

ROCKVILLE CENTRE, Village of, Inc., Box 950, 110 Maple Ave., 11571, 516/766-0300, Ext. 211, Patrick J. Hester, supt. of utils.; 10,029 met.; gen. 31,400 kW, 8,850 kW oil (eng.), 22,650 kW dual-fuel, 35,764,000 kWh; pur. 118,794,000 kWh; rev. $8,830,400. (1898)*

ROUSES POINT, Village of, Box 185 Lake St., 12979, 518/297-5502, Terry Dunn, village adm.; 1,063 met.; no gen.; pur. 56,333,102 kWh; rev. $760,607. (1903)*

SALAMANCA Water & Light Dept., 225 Wildwood Ave., 14779, 716/945-3130, James M. Brundage, gen. mgr.; 3,236 met.; no gen.; pur. 48,792,200 kWh; rev. $1,262,906. (1913)

SHERBURNE, Village of, Mun. Elec., 15 W. State St., 13460, 607/674-2300, Edward F. Adwards, mayor; 1,703 met.; no gen.; pur. 38,060,000 kWh; rev. $781,040. (1907)*

SHERRILL Power and Light, 601 Sherrill Rd., 13461, 315/363-0780, Lawrence A. Pickard, mgr.; 1,423 met.; no gen.; pur. 51,537,013 kWh; rev. $1,014,858. (1977)*

SILVER SPRINGS, Village of, Elec. Dept., 43 Main St., 14550, 716/493-2500, Robert E. Kupp, supt. pub. wks.; 360 met.; no gen.; pur. 3,467,200 kWh; rev. $81,739. (1912)

SKANEATELES, Village of, 46 E. Genesee St., 13152, 315/685-5628, James A. Buff, supt.; 1,296 met.; gen. 376 kW oil (eng.), 25,600 kWh; pur. 22,308,800 kWh; rev. $675,322. (1900)*

SOLVAY, Village of, 3143 Milton Ave., 13209, 315/468-6229, M. V Raman, mgr.; 4,346 met.; no gen.; pur. 349,025,000 kWh; rev. $4,666,565. (1896)*

SPENCERPORT, Village of, 27 West Ave., 14559, 716/352-4771, James C. Bleier, supt.; 1,997 met.; no gen.; pur. 47,904,300 kWh; rev. $932,261. (1916)*

SPRINGVILLE, Village of, Elec., 5 W. Main, 14141, 716/592-4936, John Lipoff, elec. supt.; 2,064 met.; gen. 520 kW hydro, 2,858,130 kWh; pur. 39,967,714 kWh; rev. $771,789. (1895)

THERESA, Mun. Light Comm., 217 Main St., 13691, 315/628-4425, Thomas O'Driscoll, mayor; 376 met.; no gen.; pur. 5,357,800 kWh; rev. $158,831. (1906)*

TUPPER LAKE Mun. Elec. System, 53 Park St., 12986, 518/359-3341, Donald T. Trudeau, elec. supt.; 2,765 met.; no gen.; pur 56,031,200 kWh; rev. $2,124,107. (1903)*

WATERTOWN, City of, Elec. Dept., Municipal Bldg., 13601, 315/788-7020, John J. Donoghue, supt.; 54 met: gen. 5,400 kW hydro, 26.2 million kWh; pur. 1.6 million kWh; rev. $430,000. (1924)

WATKINS GLEN Elec. Dept., 303 N. Franklin St., 14891, 607/535-2736, John Barnes, lineman; 1,218 met.; no gen.; pur. 32,211,108 kWh; rev. $468,675. (1918)

WELLSVILLE, Village of, Water & Light Dept., 156 N. Main St., 14895, 716/593-4000, Donald MacFarquhar, supt.; 2,544 met.; no gen.; pur. 48,012,300 kWh; rev. $849,518. (1915)*

WESTFIELD Bd. of Pub. Utils., 23 Elm St., 14787, 716/326-2145, Richard A. Crofoot, supt.; 2,610 met.; no gen.; pur. 54,229,241 kWh; rev. $1,035,970,000. (1892)*

NORTH CAROLINA

ALBEMARLE, City of, Elec. Dist. System, Box 190, 28002-0190, 704/982-0131, D. Lendell Smith Jr., dir. pub. wks.; 9,335 met.; no gen.; pur. 222,231,421 kWh; rev. $11,283,443. (1910)*

APEX, Town of, Box 250, 27502, 919/362-8663, Steven Stewart, town admin.; pub. wks.; 1,790 met.; no gen.; sales 28,132,671 kWh; rev. $1,819,021. (1916)*

AYDEN, Town of, Box 217, 28513, 919/746-4152, Jordan C. Horne, dir. of utils.; 3,342 met.; no gen.; sales 41,418,520 kWh, rev. $3,066,884. (1915)*

BELHAVEN, Town of, Box 220, 27810, 919/943-3105, Jay Paul Harrison, elec. supt.; 1,137 met.; no gen.; pur. 16,252,800 kWh; rev. $870,675. (est. 1920)*

BENSON, Town of, Box 157, 27504, 919/894-4953, Steven L. Harrell, town admin.; 1,424 met.; no gen.; sales 24,903,991 kWh; rev. $1,697,667. (1913)*

BLACK CREEK, Town of, Box 8, 27813, 919/243-6439, Christine Lamm, town clerk; 522 met.; no gen.; sales 6,184,262 kWh; rev. $567,570. (1922)*

BOSTIC Town of, Box 158, 28018, 704/245-5108, Charles M. Hoyle, elect., 146 met.; no gen.; pur.

2,517,034 kWh; rev. $105,565.(1920)*

CHERRYVILLE, City of, 116 S. Mountain St., 28021, 704/435-4181, Jean Beam, 2,162 met.; no gen.; sales 41,765,627 kWh; rev. $2,274,466. (1906)*

CLAYTON, Town of, Lighting Dept., 231 E. Second St., Box 777, 27520, 919/553-5866, Edward Park, elec. supt.; 2,040 met.; no gen.; pur. 33,113,000 kWh; rev. $1,914,096. (1925)*

CONCORD Bd. of Light & Water Comm., Box 567, 28025, 704/786-6161, Don T. Howell, dir. util.; 11,824 met.; no gen.; pur. 239,612,351 kWh; rev. $11,132,158. (1901)*

CORNELIUS, Town of, Box 66, 28031, 704/892-6031, Kermit W. Ballard, dir. util., 800 met.; no gen.*

DALLAS Elec. Dept., 131 N. Gaston St., 28034, 704/922-3176, Scott Braddy, supt.; 2,912 met.; no gen.; pur. 37.5 million kWh; rev. $1,521,599. (1925)

DREXEL, Town of, 202 Church St., Box 188, 28619, 704/437-7421, Morris Baker, town mgr.; 981 met.; no gen.; pur. 1,676,945 kWh; rev. $774,740. (1927)*

EDENTON, Town of, Utils., S. Broad St., Box 300, 27932, 919/482-2155, William Crummey, dir. pub. utils.; 3,198 met.; no gen.; rev. $4,680,846. (1900)*

ELIZABETH CITY, City of, Box 347, 27909, 919/338-3981, Tommy M. Combs, city mgr.; 8,399 met.; no gen.; pur. 172,980,000 kWh; rev. $10,477,098. (1923)*

ENFIELD Elec. Utils., Box 695, 27823, 919/445-3146, Joseph N. Adkins, util. dir.; 1,650 met.; no gen.; pur. 21.7 million kWh, rev. $1,719,776.

FARMVILLE, Town of, 121 Main St., 27828, 919/753-3021, James A. Wooten Jr., dir. of utils.; 2,310 met.; sales 47,973,973 kWh; rev. $3,207,775. (1915)*

FAYETTEVILLE Pub. Wks. Comm., 508 Person St., Box 1089, 28302, 919/483-1382, Tim Wood, mgr.; 47,493 met.; gen. 94,000 kW oil, 94,000 kW dual-fuel (eng.); 13,443,680 kWh; pur. 1,271,668,404 kWh; rev. $67,471,554. (1905)*

FOREST CITY Elec. Dept. 12 N. Powell St., 28043, 704/245-0148, Herb Toms, dir. pub. wks.; 3,728 met.; no gen.; pur. 81.9 million kWh; rev. $3,074,475.

FOUNTAIN Town of, Box 134, 27829, 919/749-2881, J.D. Barker, dir.; 335 met.; no gen.; pur. 4,275,600 kWh; rev. $280,070. (approx 1936).*

FREMONT, Town of, Box 818, 27830, 919/242-5151, Howard B. Davis, Mayor,. 888 met.; no gen.; pur. 13,228,300 kWh; rev. $780,972. (1924)*

GASTONIA, City of, Elec. Div., Box 1748, 302 E. Airline Ave., 28052, 704/866-6818, E. Graham Wilson, dir. pub. util.; 20,171 met.; no gen.; pur. 442 million kWh; rev. $17,439,745. (1900)*

GRANITE FALLS, Town of, Drawer 10, 28630, 704/396-3131, Dewey J. Cook, dir. pub. utils.; 1,425 met.; no gen.; sales 24,690,595 kWh; rev. $1,886,116.*

GREENVILLE Utils. Comm., 200 W. Fifth St., Box 1847, 27835, 919/752-7166, Charles O'H. Horne Jr., dir. util.; 27,233 met.; no gen.; sales 699,450,379 kWh; rev. $42,367,197. (1905)*

HAMILTON, Town of, Box 249, 27840, 919/798-2001, Kathy Moore, town clerk; 261 met.; no gen.; sales 2,830,972 kWh; rev. $217,940. (1922)*

HERTFORD, Town of, Box 32, 27944, 919/426-5311, W. D. Cox, city mgr.; 1,317 met.; no gen.; sales 14,385,147 kWh; rev. $1,133,667. (1918)*

HIGHLANDS Mun. Plant, Box 460, 28741, 704/526-2118, Arnold Keener, supt.; 2,000 met.; pur. 23,000,000 kWh; rev. $800,000.(1926)

HIGH POINT, City of, Box 230, 27261, 919/887-2511, Lloyd Shank Jr., dir. elec. util.; 25,923 met.; no gen.; sales 574,460,779 kWh; rev. $32,217,690. (1892)*

HOBGOOD Town of, Box 217, 27843, 919/826-4573, S.G. Burnett, commissioner; 310 met.; no gen.; pur. 3,518,973 kWh; rev. $273,313. (1973)*

HOOKERTON Town of, Box 296, 28538, 919/747-3816, Gene C. Hill, Mayor; 334 met.; no gen.; sales 4,604,438 kWh; rev. $348,083.*

HUNTERSVILLE Town of,Box 398, 28078, 704/8 6541, Carl J. Horton, 575 met.; no gen.; pur. 580,500 kWh;.rev. $758,235.*

KINGS MOUNTAIN Mun. Elec. Dept., Box 429, 28086, 704/739-2563, John Henry Moss, Mayor; 3,377 met.; no gen.; pur. 70,495,362 kWh; rev. $3,145,657, (1903)

KINSTON, City of, 207 E. King St., 28501, 919/527-2111, Robert C. Brigman, city mgr.; 13,797 met.; no gen.; pur. 325,726,496 kWh; rev. $19,082,441.*

LA GRANGE, Town of, Box 368, 28551, 919/566-3186, E. B. Walters, util. dir.; 1,446 met.; no gen.; sales 18,867,320 kWh; rev. $1,337,027*

LANDIS Light & Power Dept., 136 N. Central Ave., Box 8165, 28088, 704/857-2411, W. C. Deadmon, dir. util.; 2,253 met.; no gen.; pur. 33 million kWh; rev. $1,600,000.*

LAURINBURG, City of, 28352, 919/276-2364, Harold Smith, public works admin.; 4,527 met.; no gen.; sales 81,086,746 kWh; rev. $4,760,206. (1925)*

LEXINGTON, City of, 28 W. Center St., 27292, 704/246-2680, Bruce L. Kirk, supt.; 14,489 met.; no gen.; sales 317,746,880 kWh; rev. $17,393,107. (1902)*

LINCOLNTON, City of, Light & Power Dept., Box 617, 28092, 704/732-2281, David E. Lowe, city mgr.; 2,211 met.; no gen.; rev. $1,608,871. (1900)*

LOUISBURG, Town of, 110 W. Nash St., 27549, 919/496-3406, Harold C. Foster, util. dir.; Tony Robertson, town admr.; 1,650 met.; no gen.; pur. 38,834,913 kWh; rev. $1,992,488.*

LUCAMA Light Plant, Box 127, 27851, 919/239-0560, Donnie Barnes, dir. util.; 770 met.*

LUMBERTON, City of, 420 Halsey St., 28358, 919/738-2255, Wayne Hedgepeth, elec. util. dir.; 8,271 met.; no gen.; sales 203,230,948 kWh; rev. $13,630,553. (1915)*

MACCLESFIELD, Town of, Elec. Dept., Box 185, 27852, 919/827-4823, Wiley Ford, supt.; 300 met.; rev. $200,000. (est. 1928)*

MAIDEN, Town of, Box 125, 28650, 704/428-8178, David R. Walker, town mgr.; 844 met.; no gen.; sales 34,413,328 kWh; rev. $1,733,198. (1928)*

MONROE, City of, Box 69, 28110, 704/289-8557, J. E. Hinkel, city mgr.; 6,149 met.; no gen.; sales 283,577,215 kWh.; rev. $13,659,869.(1898)*

MORGANTON, City of, Drawer 430, 28655, 704/437-8863, Douglas O. Bean, city mgr.; 6,272 met.; no gen.; pur. 17,177,885 kWh; rev. $9,530,440. (1908)*

MURPHY, Town of, Elec. Power Bd., Box 130, 28906, 704/837-2211, John Carringer, mgr.; 2,624 met.; no gen.; pur. 103,956,840 kWh; rev. $198,492. (TVA power distributor) (1953)

NEW BERN, City of, Box 1129, 28560, 919/633-5161, Henry A. Mahlmann, util., dir.; 12,688 met.; no gen.; sales 270,061,410 kWh; rev. $14,259,842. (1906)*

NEW RIVER LIGHT & POWER CO., subsidiary of Appalachian State University, Box 1130, Boone, 28607, 704/264-3671, Donald R. Austin, gen. mgr.; 5,103 met.; no gen.; pur. 138,691,200 kWh; rev. $6,804,441. (1915)*

NEWTON, City of, Drawer 550, 28658, 704/464-1282, Jack Mathews, dir. pub. wks.; 3,700 met.; no gen.; sales 62,134,590 kWh; rev. $3,624,757.*

OAK CITY Mun. Utils., 27857, 919/798-7721, Laurie Jogner, town clerk; 227 met.; no gen.; pur. 2,833,700 kWh; rev. $171,853.

PIKEVILLE, Town of, Box 9, 27863, 919/242-5126, Raymond B. Glover, town mgr.; 511 met.; no gen.; sales 6,686,278 kWh; rev. $492,804. (1934)*

PINETOPS, Town of, Drawer C., 27864, 919/827-4435, Milton Carlton, town clerk; 715 met.; no gen.; pur. 14,324,923 kWh; rev. $1,028,577. (1927)*

PINEVILLE, Elec. Co., 200-208 Dover St., 28134, 704/889-2291, Jack G. Crump, town mgr.; 797 met.; no gen.; pur. 16,619,125 kWh; rev. $595,615. (1938)*

RED SPRINGS, Town of, 217 S. Main St., 28377, 919/843-5241, Paul Morrison, elec., supt.; 1,577 met.; no gen.; pur. 25,779,774 kWh; rev. $1,107,411*

ROBERSONVILLE, Town of, Box 487, 27871, 919/795-3511, James S. Simpson; 1,084 met.; no gen.; pur. 22,910,379 kWh; rev. $1,272,272. (1935).*

ROCKY MOUNT, City of, One Government Plaza, Drawer 1180, 27801, 919/972-1111, James D. Martin, dir. pub. util.; 23,305 met.; no gen.; pur. 636,681,492 kWh; rev. $35,040,882. (1902)*

SCOTLAND NECK, Town of, Box 537, 27874, 919/826-3712, Sidney R. Williams, dir. pub. utils.; 1,574 met.; no gen.; pur. 22,454,880 kWh; rev. $1,215,582.*

SELMA, Town of, 100 N. Raiford St., 27576, 919/965-9841, C. Fred

Murray, elec. sup.; 1,985 met.; no gen.; sales 33,460,359 kWh; rev. $2,370,600.*

SHARPSBURG Town Office, Box 305, 27878, 919/446-9441, Wayne Cochran, town supvr.; 904 met.; no gen.; pur. 12,997.584 kWh; rev. $689,347. (1920)*

SHELBY, City of, Box 207, 28150, 704/482-7367, Jack Robinson, supt.; 7,287 met.; no gen.; sales 148,962,530 kWh; rev. $8,582,833. (1913)*

SMITHFIELD, Town of, Box 761, 27577, 919/934-2116, Tony Robertson, town mgr.; 4,000 met.; no gen.; pur. 88 million kWh; rev. $5,676,989.*

SOUTHPORT, City of, 201 E. Moore St., 28461, 919/457-5460, James Splawn, util. dir.; 1,345 met.; no gen.; pur. 27,246,282 kWh; rev. $1,253,574. (1910)*

STANTONSBURG, Town of, Box 10, 27883, 919/238-3608, Roland L. Gardner, town mgr.; 953 met.; no gen.; pur. 13,030,126 kWh; rev. $1,080,618. (1928)*

STATESVILLE, City of, Box 1111, 28677, 704/873-2121, Clyde E. Bagwell, dir. util.; 10,155 met.; no gen.; sales 259,351,870 kWh; rev. $15,086,076. (1889)*

TARBORO, Town of, Box 220, 27886, 919/823-8121, Douglas Hathaway, dir. of elec. utils.; 5,049 met.; no gen.; sales 185,801,262 kWh; rev. $11,800,945. (1898)*

WAKE FOREST, Town of, 400 E. Elm St., 27587, 919/556-2024; Jerry Walters, town adm.; 3,445 met.; no gen.; sales 27,342,240 kWh; rev. $1,345,643. (1915)*

WALSTONBURG, Town of, Box 126, 27888, 919/753-5667, Peggy D. Gay, town clerk, 124 met.; no gen.; pur. 1,876,540 kWh; rev. $134,373. (1932)*

WASHINGTON, City of, 102 E. 2nd St., Box 1988, 27889, 919/946-1033, Ralph A. Clark, city mgr.; 9,214 met.; no gen.; sales 200,576,084 kWh; rev. $11,823,232. (1910)*

WAYNESVILLE, Town of, Elec. Dept.; 106 S. Main St., 28786, 704/456-3515, John Yarborough, elec. supt.; 2,469 met.; no gen.; sales 41,217,524 kWh; rev. $2,853,892.

WILSON, City of, Box 10, 27893, 919/291-8111, T. Bruce Boyette, city mgr.; 23,225 met.; no gen.; sales 702,619,030 kWh; rev. $41,805,198. (1892)*

WINDSOR, Town of, Box 508, 27983, 919/794-2331, David Overton, town adm.; 1,506 met.; no gen.; pur. 29,044,800 kWh; rev. $2,074,346. (1920)*

WINTERVILLE, Town of, Box 431, 28590, 919/756-2221, Harvey Lee Joyner, supt.; 2,020 met.; no gen.; pur. 16,399,560 kWh; rev. $869,222. (1890)*

NORTH DAKOTA

CAVALIER City Light & Power, 204 2nd St.,58220,701/265-8668, E. S. Thompson, mgr.; 800 met. (1928)*

GRAFTON, City of, Light Dept., 344 Hill Ave.. Box 547, 58237, 701/352-2180, Mel Durand, actg. supt.; 2,142 met.; gen. 4,160 kW eng., pur. 40,020,243 kWh; rev. $1,023,981. (1890)*

HILLSBORO, City of, Box J, 58045, 701/436-4620, Winston Marsden, city comm. pres.; 800 met.; no gen.; pur. 20,940,087 kWh; rev. $535,599.*

HOPE City Light & Power, 58046, 701/945-2794, Mark Lemley, aldr.; 130 met.; no gen.; pur. 8,595,398 kWh; rev. $120,552.

LAKOTA Mun. Utils., Box 505, 58344, 701/247-2454, Arlene Clauson, Mayor; 489 met.; no gen.; pur. 12,787,240 kWh; rev. $375,583. (1930)*

MADDOCK, City of, Box 276, 58348, 701/438-2252, Odell A. Hakanson, util. supt.; 388 met.; no gen.; pur. 4,887,552 kWh; rev. $254,821. (1918)*

NORTHWOOD, City of, Mun. Light Plant, 12 North Raymond, 58201, 701/587-6291, Arthur G. Bilden, Mayor; 607 met.; gen. 1,700 kW oil (combus. eng.), pur. 14,741,856 kWh; rev. $596,930. (1912)*

PARK RIVER Mun. Light Plant, 340 Prospect Ave., 58270, 701/284-6399, Russell Lien, supt.; 840 met.; gen. 883 kW oil-fired eng.; 2913 kWh; pur. 17,642,080 kWh; rev. $444,246. (1901)

SHARON Light & Power Dept., Box 66, 58277, 701/524-2377; Tom Strand, city auditor; 100 met.; no gen.; pur. 400,000 kWh; rev. $50,000.*

STANTON Mun. Power, Box 156, 58571, 701/745-3202, Marvin Leer, mayor; 275 met.; no gen.; pur. 5,000,000 kWh; rev. $428,687. (1974)

VALLEY CITY Mun. Utils., 254 2nd Ave. NE, Box 240, 58072, 701/845-0380, Leif Ravnaas, supt.; 3,774 met.; gen. 2,720 kW oil-fired eng.; pur. 78,370,200 kWh; rev. $1,874,290. (1891)*

OHIO

AMHERST Mun. Power & Light System, 647 Park Ave., 44001, 216/988-4224, Donald Woodings, supt.; 3,761 met.

ARCADIA Mun. Light & Power, Box 235, 44804, 419/894-6009, Vernon Seel, adm.; 270 met.; no gen.

ARCANUM Water & Light, 104 W. South St., 45304, 513/692-8565, Michael Clark, supt.; 1,269 met.; gen. 1,300 kW oil (eng.-diesel); 66,100 kWh; pur. 16,274,700 kWh; rev. $930,102. (1905)

BEACH CITY, Village of, Bd. of Public Affairs, 301 N. Church St., Box 328, 44608, 216/756-2011, Robert Raff, supt.; 700 met.; no gen.; pur. 6,763,825 kWh; rev. $364,770 (1919)*

BETHEL Bd. of Pub. Affairs, 235 W. Plane St., 45106, 513/734-2243, Dennis Barton, dist. supt.; 1,263 met.; no gen.; pur. 15.5 million kWh; rev. $382,110. (1904)

BLANCHESTER Bd. of Pub. Affairs, Box 158, 45107, 513/783-2141, Andrew Grieve, supt. of utils.; 1,600 met.; no gen.; sales 32,240,800 kWh; rev. $1,387,286. (1895)

BLOOMDALE Mun., 102 Maple St., Box 186, 44817, 419/454-2941, Raymon A. Taylor, village admr.; 300 met.; no gen.; pur. 2,702,400 kWh; rev. $128,501.*

BOWLING GREEN, City of, Utils., 304 N. Church St., 43402, 419/352-3541, Lyle B. Wright, dir. of utils.; 9,727 met.; no gen.; pur. 207,559,372 kWh; rev. $11,908,654. (1942)*

BRADNER Light and Water Plant, 130 N. Main, Box 516, 43406, 416/288-2773, Robert Butterfield, village elec.; 518 met.; no gen.; pur. 5,409,200 kWh.

BREWSTER Bd. of Pub. Affairs, 310 S. Wabash Ave., 44613, 216/767-3312, William Sessor, supt. elec. utils.; 898 met.; no gen.; pur. 18,047,600 kWh; rev. $1,155,091. (1912)*

BRYAN Mun. Light & Water Utils., 841 E. Edgerton St., 43506, 419/636-4232, ext. 27, John P.Curtin, dir. of util.; 4,008 met.; gen.20,500 kW gas (comb. turbine), 2,500 kW oil (eng.), 501,300 kWh; pur. 130,100,586 kWh; rev $6,784,866.(1898)*

CAREY Mun. Elec., 127 N. Vance St., 43316, 419/396-7681, Ernest Zmyslinski, village admr.; 1,586 met.; no gen.; pur. 62,076,000 kWh; rev. $2,489,058. (1909)*

CELINA Mun. Utils., 426 W. Market St., 45822, 419/586-6464, Thomas A. Schwartz, dir. of pub. serv. & safety; 6,131 met.; no gen.; sales 107,024,995 kWh; rev. $5,567,278. (1900)*

CLEVELAND Public Power, 1201 Lakeside Ave., 44114, 216/664-2776, Joseph Pandy Jr., comm.; 47,838 met.; gen.85,000 kW coal (steam turbine), 48,000 kW oil or gas (comb. turbine),5,441,000 kWh; pur. 544,170,364 kWh; rev. $38,911,372. (1906)*

COLUMBIANA, Village of, 28 W. Friend St., 44408, 216/482-2173, A. E. Wardingley, village mgr.; 2,384 met.; no gen.; pur. 30,198,416 kWh; rev. $1,893,395.

COLUMBUS, City of, Div. of Electricity, 90 W. Broad St., 43215, 614/222-8371, Henry A. Bell, supt.; 7,588 met.; gen. 90,000 kW waste (steam turbine), 81,843,100 kWh; pur. 336,059,859 kWh; rev. $20,255,813. (1898)*

CUSTAR Mun. System, 23044 Defiance Pike, 43511, 419/669-7385, Edward Drummer, clerk; 125 met.; no gen.; pur. 1.5 million kWh.

CUYAHOGA FALLS Elec. System, 2550 Bailey Rd., 44221, 216/923-9921 C. O. Stout, supt.; 18,688 met.; no gen. pur. 178,953,342 kWh; rev. $16,687,864. (1899)*

CYGNET Mun. Light Dept., Box 55, 43413, 419/655-2191, Tom Strickland, supt.; 258 met.; no gen.; pur. 2.5 million kWh; rev. $45,111. (1916)*

DESHLER Mun. Utils., City Building, East North St., 43516, 419/278-1831, John S. Monteith, supt. of utils.; 889 met.; no gen.; pur. 14,519,000 kWh; rev. $683,029. (1916)*

DOVER Mun. Light & Power, E. Third St., 44622, 216/343-7725, Paul Wilson, dist. supt.; 6,643 met.; gen. 30,000 kW coal (steam turbine), 2,665 kW oil (steam turbine); 62,961,400 kWh; pur.

33,646,000 kWh; rev. $4,132,143. (1900)

EDGERTON Utils., 101 S. Michigan, Box 608, 43517, 419/298-2912 or 2722, Dale A. Mathys, village admin.; 756 met.; no gen.; pur. 10,662,140 kWh; rev. $702,534. (1937)*

ELDORADO Light & Water, 200 N. Main St., 45321, 513/273-3141, Robert Wehrley, supt.; 230 met.; no gen.; pur. 2.8 milllion kWh. (1940)

ELMORE, Village of, Bd. of Pub. Affairs, 340 Clinton St., 43416, 419/862-3454, Merle Harder, village supt.; 725 met.; no gen.; pur. 7,902,987 kWh; rev. $436,235. (1911)

GALION Mun. Light & Power, 700 Primrose, 44833, 419/468-5520, G. W. Butterfield, supt.; 6,238 met.; no gen.; pur. 95,268,188 kWh; rev. $5,650,330. (early 1900s)*

GENOA Utils. Dept., 102 E. 6th St., 43430, 419/855-3418, William Bauer, supt. of utils.; 964 met.; no gen.(1925)

GEORGETOWN Mun. Light Plant, 301 S. Main St., 45121, 513/378-6144, Harold Howser, supt.; 2,000 met.; no gen.; pur. 24.5 million kWh.

GLOUSTER Water & Elec. Dept., 16 Front St., 45732, 614/767-3497, Delbert Skinner, supt.; 1,045 met.; no gen.; pur. 7.2 million kWh; rev. $151,089. (1924)

GRAFTON, Village Elec., 1009 Chestnut St., 44044, 216/926-2401 Allen Bartlett, village admin.; 843 met.; no gen.; pur. 11,762,158 kWh; rev. $663,631.

GREENWICH Mun. Water & Light, 47 Main St., 44837, 419/752-4725, Thomas Baker, supt.; 609 met.; no gen.; pur. 8.8 million kWh.

HAMERSVILLE Bd. of Pub. Affairs, Box 146, 45130, 513/379-1716, Kay Elliott, clerk; 3,761 met.

HAMILTON Pub. Utils., 20 High St., 45011, 513/868-5907, E. Leon Daggett, dir. of utils.; 25,003 met.; gen. 83,000 kW coal, 19,000 kW gas (steam turbine), 16,000 kW gas (combus. turbine), 1,000 kW hydro; 240,912,590 kWh; pur. 37,134,000 kWh; rev. $22,529,897. (1929)*

HASKINS Mun. Light & Power, 43525, 419/353-5443, Delton Asmus, mayor; 200 met.; no gen.

HUBBARD, City of, Mun. Light & Power System, 13 W. Liberty St., 44425, 216/534-3054, Robert Randall, utils. supt.; 3,309 met.; no gen.; pur. 51,081,730 kWh; rev. $2,612,515.*

HUDSON, Elec. Dept., 27 E. Main, 44236, 216/650-1052, S.S. Schweikert, village mgr.; 4,196 met.; no gen.; pur. 87,579,956 kWh; rev. $5,631,559. (1911)

JACKSON Mun. Elec. System, Box 664, 45640, 614/286-4415, Ronald B. Speakman, serv. dir.; 3,671 met.; no gen.; pur. 42,000,000 kWh; rev. $2,211,371. (1890)

JACKSON CENTER, Village of, Mun. Elec. System, 122 E. Pike, 45334, 513/596-5440, Richard Sailor, village adm.; 565 met.; no gen.; pur. 12,068,557 kWh; rev. $851,534. (1920)

LAKEVIEW Water & Light, 310 N. Main St., Box 41, 43331, 513/843-2851, Sandra S. Peyton, clerk; 910 met.; no gen.; pur. 9,601,814 kWh; rev. $683,412. (1912)

LEBANON, City of, City Bldg., 40 S. Broadway, 45036, 513/932-3060, Robert Newton, supt.; 4,748 met.; gen. 6,000 kW oil (combus. turbine), 14,390 kW dual-fuel (eng.); 35,000 kWh; pur. 85,938,240 kWh; rev. $4,935,500. (1898)*

LODI Power & Light, 108 Ainsworth St., 44254, 216/948-1099, Carl Zdelar, supt.; 1,610 met.; no gen.; sales 22,239,000 kWh; rev. $1,733,553. (1942)*

LUCAS Bd. of Pub. Affairs, Box 213, 44843, 419/892-2178, James Sprang, supt.; 306 met.; pur. 3.0 million kWh.

MARSHALLVILLE Mun. Utils. Dept., Box 227, 44645, 216/855-4241, Herb Brillhart, supt; 300 met.; no gen.; pur. 2 million kWh.

MENDON Bd. of Pub. Affairs, Box 164, 45862, 419/795-3901, Lawrence J. Dicke, supt.; 300 met.; no gen.; pur. 1.7 million kWh; rev. $37,959.

MILAN Mun. Elec.Light Dept., S. Main St., 44846, 419/499-2133, Larry Doerner, supt.; 658 met.; no gen.; pur. 8,071,812 kWh. (1907)

MINSTER Elec., 29 S. Hanover St., 45865, 419/628-2850, Edward A. Bruns, supt.; 998 met.; no gen.; pur. 44 million kWh; rev. $1,693,081. (1910)*

MONROEVILLE Mun. Elec., 8 Monroe St., Box 156, 44847, 419/465-4149, Joe Gravenhorst, supt.; 775 met.; no gen.; pur. 17,275,078 kWh; rev. $849,395. (1906)*

MONTPELIER Mun. Light, 211 N. Jonesville St., Box 148, 43543, 419/485-3693, Donald Olmstead, supt.-engr.; 2,236 met.; no gen.; pur. 35,164,800 kWh; rev. $1,991,308. (1893)

NAPOLEON City of, Light and Power, 255 W. Riverview, Box 151, 43545, 419/592-4010, Dave Mullholand, elec. dist. supt.; 4,745 met.; no gen. pur. 106.4 million kWh; rev. $5,432,052. (1894)*

NEW BREMEN Elec. Dist. System, 214 N. Washington St., Box 27, 45869, 419/629-2447, Clarence B. Art, village adm.; 1,049 met.; no gen.; pur. 31,630,487 kWh; rev. $1,489,385.

NEW KNOXVILLE Village Light Dept., Box 246, 45871, 419/753-2160, Bob Scheblo, village adm.; 405 met.; no gen.; pur. 4.4 million kWh; rev. $224,112.

NEWTON FALLS, City of, Light & Power, 52 E. Church St., 44444, 216/872-7711, R. P. Galgoci, supt.; 2,200 met.; no gen.; pur. 25.4 million kWh; rev. $1,223,773.

NILES, City of, Water & Light, 34 W. State St., 44446, 216/652-2622, Charles W. Burgess, supt.; 11,011 met.; no gen.; pur. 188,496,000 kWh; rev. $10,950,943.

OAK HARBOR, Light and Water Dept., 146 Church St., Box 232, 43449, 419/898-3881, Kenley C. Wood, supt., light and water dept.; 1,263 met.; no gen.; pur. 15,349,416 kWh; rev. $780,441. (1914)*

OBERLIN Mun. Light & Power System, 289 S. Professor St., 44074-1598, 216/775-1531, Roger Merriman, dir.; 2,750 met.; gen. 3,742 kW oil-fired, 8,150 kW dual-fuel; 10,838,930 kWh; pur. 60,034,000 kWh; rev. $4,599,266. (1934)*

OHIO CITY Mun. Power, Box 248, 45874, 419/965-2255, Betty Spitler, clerk-treas.; 545 met. (1930)

ORRVILLE, City of, Dept. of Pub. Utils.; Box 126, 44667, 216/683-8715, Robert A. Nichols, dir. util.; 5,417 met.; gen. 89,100 kW, 88,500 kW gas (steam turbine), 600 kW oil-fired; 189,970,000 kWh; sales 162,870,054 kWh; rev. $9,093,930. (1917)*

PAINESVILLE, City of, 7 Richmond St., Box 601, 44077, 216/352-9301, Thomas Green, elec. power supt.; 9,193 met.; gen. 51,500 kW steam; 123,056,100 kWh; pur. 0,493,100 kWh; rev. $7,550,639. (1888)

PEMBERVILLE, Village of, Bd. of Pub. Affairs, 115 Main St., Box 109, 43450, 419/287-3832, Don Oberhouse, pres., bd. of pub. affairs; 619 met.; no gen. pur. 7,890,000 kWh; rev. $554,197. (1914)

PIONEER Bd. of Pub. Affairs, 106 First St., Box 335, 43554, 419/737-2614, T. E. Williams, supt.; 470 met.; no gen.; pur. 6.8 million kWh. (1912)

PIQUA, City of, Mun. Power System, 919 S. Main St., 45356, 513/778-2080, H. E. Hastings, dir.; 8,991 met.; gen. 60,000 kW, 40,000 kW coal, 20,000 kW oil turbine; 173,404,000 kWh; pur. 36,525,000 kWh; rev. $9,412,376. (1933)*

PLYMOUTH, Village of, 25 Sandusky St., 44865, 419/687-4331, James Root, adm.; 810 met.; no gen.; sales 8,101,000 kWh; rev. $450,000. (1910)

PROSPECT Mun. Elec. System, Box 186, 43342, 614/494-2115, Richard Stover, supt.; 621 met.; no gen.; pur. 6,593,950 kWh; rev. $481,539. (1937)*

REPUBLIC Bd. of Pub. Affairs, 219 Washington, Box 68, 44867, 419/585-5981, Edwin D. Porter, supt.; 306 met.; no gen.; pur. 2,844,775 kWh; rev. $143,137.

RIPLEY Mun. Electricity, 14 N. Third, 45167, 513/392-4377, Carl Judy, supt.; 1,200 met.; no gen.; pur 10.6 million kWh.

ST. CLAIRSVILLE Mun. Utils., 100 Market, Box 537, 43950, 614/695-1410, Dannis Banash, supt; 2,413 met.; no gen.; pur. 33.2 million kWh.

ST. MARYS, City of, Mun. Elec., 101 E. Spring St., 45885, 419/394-3303, Kenneth L. Hegemann, service and safety dir.; 3,490 met.; gen. 12,900 kW, 12,300 kW steam, 600 kW oil (comb. turbine); 47,984,400 kWh; pur. 38,210,258 kWh; rev. $4,205,471. (1890)*

SEVILLE Bd. of Pub. Affairs, 40 W. Main St., 44273, 216/769-2458, Harold Baker, supt.; 1,011 met.; no gen.; sales 15,104 kWh; rev. $903,863. (1914)*

SHELBY Dept. of Utils., 23 E. Main St., Box 311, 44875, 419/342-4085, David Burford, util. sec.; 4,335 met.; gen. 40,500 kW, 37,500 kW steam, 3,000 kW eng., 80.6 million kWh; pur. none; rev. $1,995,006. (1892)

SHILOH Mun., Box 242, 44878, 419/896-2011, Wayne Baker, attendant; 288 met.; no gen.; sales 2,933,568 kWh; rev. $164,901.

SOUTH VIENNA Corp., 16 N. Urbana St., 45369, 513/568-9137, Randy Phares, pres., bd. of pub. affairs; 178 met.; no gen.; pur. 2,805,759 kWh.

SYCAMORE Light & Water Dept., 208 S. Pemberton St., 44882, 419/927-4262, Howard E. Feasel, supt.; 450 met.; no gen.; pur. 1 million kWh. (1930)

TIPP CITY Mun. Utils., 3 E. Main St., 45371, 513/667-8424, Steve Husemann, city mgr.; 2,668 met.; no gen.; sales 60,147,133 kWh; rev. $2,867,110. (1897)

TONTOGANY Bd. of Pub. Affairs, Box 153, 43565, 419/823-4233, Ralph Wires, pres., 190 met.; no gen.; pur. 0.2 million kWh.

VERSAILLES Utils., 6 S. Center St., 45380, 513/526-4191, Ramon Nickol, supt. of utils.; 1,369 met.; no gen.; pur. 27,044,685 kWh; rev. $1,472,836. (1901)*

WADSWORTH Mun., 145 High St., 44281, 216/335-1521, William J. Lyren, dir. of pub. serv.; 7,758 met.; no gen.; pur. 133,008,000; rev. $8,860,517. (1903)*

WAPAKONETA, City of, Light & Power, 102 Perry St., 45895, 419/738-7713, Lewis R. Knoch, supt.; 4,287 met.; no gen.; pur. 104,671,680 kWh. (1892)*

WAYNESFIELD Bd. of Pub. Affairs, 45896, 419/568-4991, Lon Zimmerman, chair.; 350 met.; no gen.; pur. 4.8 million kWh.

WELLINGTON Mun. Utils., 98 Johns St., 44090, 216/647-3827, Robert A. Dupee, dir. of utils.; 1,882 met.; no gen.; pur. 37,596,000 kWh. (1900)*

WESTERVILLE, City of, Elec. Div., 139 E. Broadway, 43081, 614/890-8540, Andrew Grieve, dir. of utils., 8,823 met.; no gen.; pur. 205,211,234 kWh; rev. $11,768,218. (1898)*

WHARTON Bd. of Pub. Affairs, Box 266, 43359, 419/458-2121, Calvin J. Pever, clerk; 191 met.; no gen.; pur. 1,500,000 kWh; rev. $100,343. (1935)

WOODSFIELD Bd. of Pub. Affairs, 203 Roy St., 43793, 614/472-3841, Ellis Smithberger, supt.; 1,200 met.

WOODVILLE Light, 212 Bridge St., 43469, 419/849-3031, Ted Bowan, adm.; 838 met.; no gen.; pur. 8.0 million kWh.

YELLOW SPRINGS, Village of, Mun. Util., 314 Dayton St., 45387, 513/767-7202, Kent Bristol, village mgr.; 1,847 met.; no gen.; pur. 32,074,696 kWh; rev. $1,751,529.*

OKLAHOMA

ALTUS, City of Elec. Dept., Box 914, 73521, 405/477-1950, Gerald Stone, city adm.; 8,727 met.; no gen.; pur. 115.2 million kWh, rev. $5,323,394. (1929)*

AMORITA Light & Power, City Hall, 73719, 405/474-2550, George Miller, mayor.

ANADARKO Pub. Wks. Auth., Box 647, 73005, 405/247-2481, Jack Jeuback, city mgr.; 2,812 met.; no gen.; sales 40,189,248 kWh; rev. $1,806,107.

BLACKWELL, City of, Municipal Auth., Box 350, 74631, 405/363-4312, Bruce Stone, city mgr.; 4,201 met.; no gen.; pur. 77,938,000 kWh; rev. $4,083,603. (1913)*

BRAMAN, Town of, 308 Broadway, 74632, 405/385-2169, Devern L. Miller, city clerk, 200 met.; no gen.; pur. 1,558,800 kWh; rev. $91,368. (1924)

BURLINGTON, Utility Enterprise, Box 216, 73722, 405/431-2550, Ray Thompson, admin.; 116 met.; pur. 1,504,200 kWh; rev. $131,736. (1932)

BYRON, Town of, 73723.; James M. Guffy, mayor, 44 met.; no gen.; pur. 412,600 kWh.

CARMEN, Box 98, 73726, 405/987-2321, James Burdg, elec. supt., 260 met.; no gen.; sales 3,712,000 kWh.

CHELSEA, Town of, Box 48, 74016, 918/789-2315, C. C Drumheller, elec. supt.; 993 met no gen.; sales 9,600,000 kWh.

CHEROKEE, City of, Mun. Light & Water Dept., City Hall, 121 North Grand, Box 288, 73728, 405/596-3052; Don Groves, city mgr.; 1,400 met.; gen. 5,000 kW dual-fuel (eng.), 3,654,700 kWh; pur. 17,625,033 kWh; rev. $962,000. (1910)

CLAREMORE Mun. Light & Water Dept., 104 S. Muskogee, Box 249, 74017, 918/341-1325, Don Gilbert, supt.; 5,826 met.; no gen.; pur. 80 million kWh; rev. $1,366,836.

COLLINSVILLE Elec. Dept., 106 N. 12th, Box A, 74021, 918/371-2811, John P. Phillips, mayor; 1,300 met.; no gen.

COMANCHE, City of, 115 N. Second, 73529, 405/439-8832, Bergl Blair, elec. supt.; 1,000 met.; no gen.; pur. 12.7 million kWh; rev. $350,674. (1912)

COPAN Light & Power, Box 219, 74022, 918/532-4285, Richard L. Elkins, 434 met.; no gen.; pur. 5,161,305 kWh; rev. $266,307. (1936)

CORDELL, City of, 101 E. Main St., 73632, 405/832-3825, Danny Lenaburg, elec. supt.; 1,700 met.; no gen.; pur. 24 million kWh; rev. $173,219. (1910)

CUSHING, City of, Mun. Light & Power, City Hall, Box 311, 74023, 918/225-0790, L. W. Hargrove, city mgr.; 3,950 met.; gen. 13,000 kW dual-fuel (eng.), 60,000,000 kWh; pur. 33,000,000 kWh. (1935)

DUNCAN Power & Light Dept., City Hall, Box 969, 73533, 405/252-0250, Don Howland, mgr.; 6,560 met.; no gen.; pur. 56.4 million kWh; rev. $4,859,593. (1921)*

EDMOND Pub. Works Auth., 315 SW 33rd St., Box 2970, 73083, 405/348-8830, ext. 291, Dallas D. Graham, city mgr.; 12,970 met.; no gen.; pur. 269,807,196 kWh; rev. $12,413,422. (1912)*

ELDORADO Light Dept., 107 S. Fourth, Box 190, 73537, 405/633-2245, Harold Conwell, supt.; 400 meters; no gen.

FAIRVIEW, City of, Box 386, 73737, 405/227-4416, Dixie J. Blackledge, city mgr.; 1,509 met.; gen. 3,203 kW oil (eng.);124,800 kWh; pur. 28,888,800 kWh; rev. $2,150,985. (1908)*

FORT SUPPLY, Town of, Box 156, 73841, 405/766-3211, Jesse Wilson, power supt.; 260 met.; no gen.

FREDERICK, City of Elec. Dept., 200 W. Grand Ave., Box 399, 73542, 405/335-2714, Owen W. Fry, mayor, 2,900 met.; no gen.; pur. 46,281,028 kWh; rev. $1,961,833. (1917)

GEARY Mun. Light & Water Dept., Box 125, 73040, 405/884-5466, Chuck Johnson, elec. supt.; 718 met.; no gen.; rev. $404,200.

GOLTRY Mun. Lighting, Box 236, 73739, 405/496-2441, J. Gary Voss, elec. supt.; 158 met.; no gen.; pur. 2,556,400 kWh, rev. $81,004.

GRAND RIVER DAM AUTHORITY, Box 409, Vinita, 74301, 918/256-5545, Robert W. Sullivan, actg. gen. mgr.; 70 met.; gen. 490,000 kW coal, (steam turbine), 454,100 kW hydro; 3,343,973,000 kWh; pur. 9,130,148 kWh; rev. $115,965,976. (1935)*

GRANITE, Town of, Box 116, 73547, 405/535-2116, E. J. Hahn, city clerk, utility supt.; 580 met.; no gen.; pur. 6,740,864 kWh; rev. $339,659. (1920)

HOMINY Elec. Dept., 314 W. Third St., Box 219, 74035, 918/885-2164, Allen Bates, mgr.; 1,878 met.; no gen.; rev. $276,614.

KAW CITY, City of, Box 26, 74641, 405/269-2525, Velda Rundle, city clk., 142 met.; no gen.; pur. 1,754,484 kWh; rev. $16,962.

KINGFISHER Power Plant, 3rd & Bowman, 73750, 405/375-4932, Danny L. Mastalka, plant supt.; 2,627 met.; gen. 8,400 kW dual-fuel eng.;3,086,100 kWh; pur. 37,575,400; rev. $2,453,586. (1900)

LAVERNE Mun. Elec. Light Plant, Box 4301, 73848, 405/921-5121, Jay D. McCoy, elec. supt.; 770 met.; gen. 1,100 kW eng.

LEXINGTON Elec. Dept., Drawer D, 73051, 405/527-3179, Chuck Tiller, elec. supt.; 900 met.; no gen.; pur. 27,000 kWh; rev. $253,000. (1951)

LINDSAY Elec. Dept., 308 S. W. Second, Box 708, 73052, 405/756-4900, Kenneth I. McCabe, city mgr.; 1,470 met.; gen. 9,974 kW eng., 18.8 million kWh; pur. none; rev. $412,770. (1915)

MANCHESTER Light & Power Dept., Box 5, 73758, 405/694-2340, L. E. Toole, elec. supt.

MANGUM Utils. Auth., 201 N. Oklahoma St., 73554, 405/782-2256, Gerald Hukill, city mgr.; 2,283 met.; gen. 6,500 kW dual-fuel (eng.), 4,458,500 kWh; pur. 18,695,200 kWh; rev. $1,437,517. (pre-1929)

MANITOU Light Dept., 73555, 405/397-2241, Genevieve Meadows, city clerk; 300 met.

MANNFORD Elec. Dept., Box 327, 74044, 918/865-4314, W. P. Adkins, pub. works dir.; 405 met.; no gen.; rev. $110,911.

MARLOW Light & Water Dept., 318 W. Main St., Box 113, 73055, 405/658-5401, Wallace Stovall, city mgr.; 2,500 met.; no gen.; pur. 29,370,000 kWh.

MIAMI Util. Dept., Box 1288, 74354, 918/542-7665, John C. Woody, gen. mgr.; no gen.; pur. 118,350,960 kWh; rev. $6,213,422. (1910)

MOORELAND, Town of, Light & Power, Box 157, 73852, 405/994-5925, Dean Hensley, supt.; 705 met.; no gen.; sales 8,193,600 kWh; rev. $299,433. (1908)

NEWKIRK Mun. Utils., Box 469,

74647, 405/362-2117, Harold J. Harris, city mgr.; 1,300 met.; no gen.; pur. 13,000,000 kWh; rev. $776,500. (1918)

OKEENE Light & Water Dept., 213 N. Main St., Drawer F, 73763, 405/822-3197, Don Rauh, supt.; 600 met.; gen. 3,000 kW eng.; rev. $207,312.

OLUSTEE, Town of, Box 330, 73560, 405/648-2288, Kenneth Reynolds, elec. supt.; gen.

ORLANDO Public Works Authority, Box 27, 73073, 405/455-2523, Debbie Van Franken, town clk.; 90 met.; no gen.; rev. $96,000.

PAWHUSKA Light & Water Plant, 700 W. Tenth St., Box 539, 74056, 918/287-3260, Harvey Massey, city mgr.; 2,682 met.; gen. 8,700 kW dual-fuel; 625,000 kWh; pur. 33,212,032 kWh; rev. $1,688,370. (1907)

PAWNEE Mun. Light & Water Dept., 614 Kansas St., Box 130, 74058, 918/762-2658, Alford Majors, mayor; 1,200 met.

PERRY, City of, Water & Light Dept., Box 111, 73077, 405/336-4241, Charles J. Bezdicek, util. mgr.; 3,240 met.; no gen.; pur. 57,780,000 kWh; rev. $3,060,902. (1922)

PONCA CITY Mun. Light Dept., Box 1450, 74602, 405/765-6653, Charles L. Silvy, dir., utils.; 15,498 met.; gen. 58,000 gas (steam turbine), 26,000 kW dual-fuel (eng.), 21,276,000 kWh; pur. 241,040,000 kWh; rev. $14,618,944. (1914)

POND CREEK Water & Light Dept., Box 45, 73766, 405/532-4915, Richard Dillon, elec. supt.; 552 met., no gen.; pur. 6 million kWh; rev. $700,000.

PRAGUE Mun Utils., Box 648, 74864, 405/567-2601, Harold Behrnes, pub. wks. supt., 1,100 met.; no gen.; pur. 18,400,890 kWh; rev. $854,785. (1902)

PRYOR Mun. Util. Bd.,6 N. Adair, Box 249, 74362, 918/825-2100, Bob Pierson, gen. mgr.; 3,976 met.; no gen.; pur. 65,144,800 kWh; rev. $3,805,552. (1951)

PURCELL Pub. Works Auth., 230 W. Main, Box 71, 73080, 405/527-6561, Royce Hunter, city mgr., 4,600 met.; no gen.; pur. 38,788,800 kWh; rev. $1,386,155.

RYAN Mun. Light & Water Plant, Box 489, 73565, 405/757-2406, Homer Ryan, city mgr.; 515 met.; no gen.; pur. 5,706,792 kWh; rev. $264,421.

SALLISAW Light & Power Dept., 111 N. Elm, Drawer C, 74955, 918/775-6241, James R. Hudgens, city mgr.; 3,234 met.; no gen.; pur. 81,934,200 kWh; rev. $3,475,468. (1914)

SKIATOOK Elec. Dept., City Hall, Box 399, 74070, 918/396-2797, Monte Gondles Jr., adm. asst.; 1,900 met.; no gen.; pur. 36 million kWh.

SOUTH COFFEYVILLE Mun. Elec. System, Drawer C, 74072, 918/225-6045, Carl Yates, mayor; 350 met.; no gen.; pur. 2 million kWh; rev. $158,544.

SPIRO Mun. Improvement Auth., 131 S. Main St., 74959; 918/962-2470, Stearl Nelson, mayor; 925 met.; no gen.; rev. $397,341.

STILLWATER Utils. Auth., Box 1449, 74076, 405/372-0025, Karl Stadler, dir. elec. utils; 16,734 met.; gen. 24,000 kW gas (steam turbine), 3,331,900 kWh; pur. 272,829,818 kWh; rev. $12,685,000. (1900)*

STILWELL Util. Dept., Box 840, 74960, 918/696-2154, Page G. Arnall, supt. util.; 1,426 met.; no gen.; pur. 30,994,100 kWh, rev. $1,428,844. (1952)

STROUD Water & Light Dept., Drawer K, 74079; 918/968-2890, Bruce Stone, mgr.; 1,360 met.; no gen.; pur. 20,677,998 kWh; rev. $1,189,000. (1927)

TAHLEQUAH Pub. Wks. Auth., Box 29, 74464, 918/456-2564, J. M. Hicks, gen. mgr.; 4,167 met.; no gen.; pur. 68,805,561 kWh; rev. $3,413,628. (1923)

TECUMSEH Util. Authority, 114 N. Broadway, 74873, 405/598-2188, Wm. Charles Martin, city mgr.; 1,907 met.; no gen.; sales 20,779,871 kWh; rev. $998,196.

TONKAWA Mun. Power Plant, 117 S. Seventh, Box 467, 74653, 405/628-2508, J. E. Ditmore, mgr.; 1,617 met.; gen. 5,500 kW eng., 12.5 million kWh; pur. 6 million kWh; rev. $387,030. (1925)

WAGONER Pub. Wks. Auth., 231 Church St., Box 406, 74467, 918/485-2554, Elvin E. Neel, mgr.; 3,353 met.; no gen.; sales 45,000,000 kWh; rev. $2,428,425.

WALTERS, City of, Box 485, 73572, 405/875-3337, Buddy Veltema, city mgr.; 1,530 met.; no gen.; pur. 18,336,752 kWh; rev. $825,633. (1923)*

WATONGA Water & Light System, Weigel St., Box 564, 73772, 405/623-7353, Kenneth Marshall, elec. supt.; 1,825 met.; no gen.; rev. $491,125.

WAYNOKA Light & Power, 201 E. Cecil St., 73860, 405/824-2261, Ray Gamble, elec. supt.; 848 met.; no gen.; pur. 7.5 million kWh.

WELEETKA, 74880. (Municipal distribution system leased to Public Service Co. of Oklahoma.)

WETUMKA Light Dept., 202 N. Main, 74883, 405/452-3153, Carl Sanders, supt.; 800 met.; no gen.; pur. 4 million kWh; rev. $100,084.

WYNNEWOOD Water & Light Dept., 207 W. Kerr Blvd., Box 176, 73098, 405/665-4141; Ralph Nelms, mgr.; 1,237 met.; no gen.; pur. 12.5 million kWh, rev. $570,185.

YALE City of, 209 N. Main, 74085, 918/387-2121, Robert Wherry, city mgr.; 855 met.; no gen.

OREGON

ASHLAND, City of, 20 E. Main St., 97520, 503/482-3211, Al Williams, dir.; 6,599 met.; no gen.; pur. 125,632,000 kWh; rev. $4,269,232. (1909)

BANDON, City of, Box 67, 97411, 503/347-2437, Ben M. McMakin, city mgr.; 2,301 met.; no gen.; pur. 48,616,540 kWh; rev. $1,828,049. (1921)*

CANBY Util. Bd., 154 N. W. 1st Ave., Box 470, 97013, 503/266-1156, Stephan A. Lashbrook, mgr.; 3,386 met.; no gen.; pur. 92,877,000 kWh; rev. $2,739,927. (1969)

CASCADE LOCKS, City of, Box 308, 97014, 503/374-8484, Ken Hobson, city admin.; 754 met.; no gen.; sales 22,002,267 kWh; rev. $509,675. (1939)*

CENTRAL LINCOLN PEOPLE'S UTILITY DISTRICT, 255 S. W. Coast Highway, Box 1126, Newport, 97365, 503/265-3211, Roland Neutzmann, gen. mgr.; 25,488 met.; no gen.; pur. 1,257,609,288 kWh; rev. $32,862,624. (1943)*

CLATSKANIE PEOPLE'S UTILITY DISTRICT, Box 216, Clatskanie, 97016, 503/728-2163, Liston Darby, gen. mgr.; 3,045 met.; no gen.; pur. 734,548,000 kWh; rev. $14,822,258. (1940)*

COLUMBIA RIVER PEOPLE'S UTILITY DISTRICT, Box 1193, St. Helens, 97051, 503/397-1844, Fergus Pilon, gen. mgr.; 6,000 met.; no gen. (Began operation Aug. 31, 1984).*

DRAIN, City of, Box 158, 97435, 503/836-2417, Robert A. Gray, city admr.; 620 met.; no gen.; pur. 25,917,000 kWh; rev. $527,739. (1940)

EMERALD PEOPLE'S UTILITY DISTRICT, Box 528, Creswell, 97455, 503/74[illegible]-1583, Lon Topaz, gen. mgr.; 13,508 met.; no gen.; pur. 45,665,953 kWh; rev. $1,893,782. *

EUGENE Water & Elec. Bd., Box 10148, 97440, 503/484-2411, Keith Parks, gen. mgr.; 61,926 met.; gen. 162,700 kW; 51,200, kW waste, 111,500 kW hydro, 466,363,500 kWh; pur. 1,635,809,140 kWh; rev. $57,217,880. (1911)*

FOREST GROVE, City of, Light & Power Dept., Box 326, 97116, 503/357-7151, Doug Sleeth, dir., light and power dept.; 6,030 met.; no gen.; pur. 178,589,700 kWh; rev. $2,744,624. (1896)*

McMINNVILLE Water & Light Dept., 130 N. Baker St., 97128, 503/472-6158, Alan H. Jones, gen. mgr.; 8,285 met.; no gen.; pur. 380,106,523 kWh; rev. $8,416,287. (1889)*

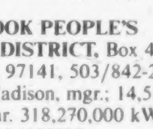
MILTON-FREEWATER City Light & Power, 722 S. Main, Box 6, 97862, 503/938-5533, George N. McRae, elec. supt.; 3,517 met.; no gen.; pur. 111,204,000 kWh; rev. $1,164,562. (1890)*

MONMOUTH, City of, 151 W. Main St., 97361, 503/838-3526, Stan Kenyon, city mgr; 2,533 met.; no gen.; pur. 47,876,440 kWh; rev. $1,356,736. (1940)*

NORTHERN WASCO COUNTY PEOPLE'S UTILITY DISTRICT, The Dalles, Box 621, 97058, 503/296-2227, Harold Haake, mgr.; 8,567 met.; no gen.; pur. 202,153,243 kWh; rev. $7,012,796. (1939)*

SPRINGFIELD Util. Bd., 250 N. A. St., 97477, 503/746-8451, Steve L. Loveland, gen. mgr.; 20,267 met.; no gen.; pur. 660,722,310 kWh; rev. $17,529,079. (1950)*

TILLAMOOK PEOPLE'S UTILITY DISTRICT, Box 433, Tillamook, 97141, 503/842-2535, Jack H. Madison, mgr.; 14,521 met.; no gen.; pur. 318,270,000 kWh; rev. $11,165,995.(1932)*



PENNSYLVANIA

BERLIN Mun. Elec. Sys., 700 North St., 15530, Kerry B. Claycomb, exec. bor. secy.; 903 met.; no gen; pur. 13,521,600 kWh; rev. $774,075.

BLAKELY Borough Mun. Light Plant, 800 Main St., Peckville, 18452, Harold J. McCusker Jr., bor. mgr.; 2,976 met.; no gen.; pur. 33,619,000 kWh; rev. $1,838,549. (1895)

CATAWISSA Bor. Light, 118 N. 3rd St., Box 44, 17820, 717/356-2561, C. L. Linn; 760 met.; no gen.; pur. 10,200,000 kWh; rev. $424,000. (1928)

CHAMBERSBURG, Bor. of, 100 S. Second St., 17201, 717/264-5151, Julio D. Lecuona, bor. mgr.; 9,213 met.; gen. 4,000 kW dual-fuel, 209,240 kWh; pur. 178,940,000 kWh; rev. $7,810,993. (1893)*

DUNCANNON Borough, 428 High St., Box 9, 17020, 717/834-4311, Thomas Evans, borough mgr.; 834 met.; no gen.; pur. 7,191,000 kWh; rev. $307,243. (1898)

EAST CONEMAUGH Mun. Elec. Dept., 355 First St., Borough Bldg., 15909, 814/535-1977, John Salem, meter reader, 808 met.; no gen.; pur. 5,116,000 kWh; rev. $289,443.

ELLWOOD CITY Mun. Elec. Dept., 525 Lawrence Ave., 16117, 412/758-5576, Robert McClelland, supt.; 4,281 met.; no gen.; pur 48,376,000 kWh; rev. $1,446,640. (1901)

EPHRATA Power & Light, 114 E. Main St., 17522, 717/733-1277, L. Victor Dickinson, bor. mgr.; 5,173 met.; no gen.; pur. 85 million kWh; rev. $5,018,000. (1902)*

GIRARD Bor. Elec., 34 Main St. West, Box 146, 16417, 814/774-3012, Martin Rafferty, bor. mgr.; 1,200 met.; no gen.; pur. 18 million kWh; rev. $1.5 million. (1900)

GOLDSBORO E.L.H.&P. Util., Etters, Box 14, 17319, 717/938-3456, Lee V. Fishel, bor. mgr.; 206 met.; no gen.; pur. 1,722,000 kWh; rev. $68,880. (1913)

GROVE CITY Borough Elec. Dept., 315 Park Street, 16127, 412/458-7070, John T. Bouck, supt.; 2,755 met.; no gen.; pur. 36,494,400 kWh; rev. $2,564,081. (1908)*

HATFIELD Mun. Sys., Broad and Cherry Sts., Box 190, 19440, 215/855-0781, Leonard T. Perrone, bor. mgr.; 1,200 met.; pur. 13,455,000 kWh; rev. $850,000. (1930)

HOOVERSVILLE Borough, Box 176, 15936, 814/798-8001, Eileen P. Granoas, borough sec.; 387 met.; no gen.; pur. 2,753,600 kWh; rev. $172,318.

KUTZTOWN, Borough of, 211-213 W. Main St., 19530-1697, 215/683-6131, Carl H. Bortz, borough sec.; 1,841 met.; no gen.; sales 35,773,141 kWh; rev. $2,451,908.*

LANSDALE, Borough of, Elec. Dept., 421 W. Main St., 19446 215/368-1691, Edward W. Olander, supt.; 7,418 met.; no gen.; pur. 106,760,000 kWh; rev. $7,827,028. (1902)*

LEHIGHTON Borough Light & Power, Municipal Bldg., 18235, 215/377-4002, Mortimer L. Smedley, Jr., mgr.; 2,930 met.; no gen.; pur. 36,629,000 kWh; rev. $2,054,160. (1940)

LEWISBERRY, Borough of, Box 172, 17339, 717/938-6446, Sandra Griffith, vic pres. of council; 141 met.

MIDDLETOWN Borough, 60 West Emaus St., 17057, 717/944-4686, James Harper, admin. officer; 4,117 met.; no gen.; pur. 67,089,600 kWh; rev. $1,494,016. (1906)*

MIFFLINBURG Light Dept., 333 Chestnut St., 17844, 717/966-1013, Walter Katherman, bor. mgr.; 1,561 met.; no gen.; pur. 33,576,000 kWh; rev. $1,328,089. (1925)

MONT ALTO Mun. Elec. Dept., 17237, Robert T. Shank, borough sec.; 481 met.; no gen.; pur. 2 million kWh; rev. $157,479.

NEW WILMINGTON, Borough of, 140 W. Neshannock Ave., 16142, 412/946-8167, Edward Garrett, borough supt.; 706 met.; no gen.; pur. 11,392,000 kWh; rev. $616,790.

OLYPHANT Borough Elec. Plant, Willow Ave., 18447, 717/489-3211, John Cecere, plant frmn.; 1,590 met.; no gen.; pur. 23,596,200 kWh; rev. $1,078,884

PERKASIE Elec. Dept., 120 N. 7th St., Box 275, 18944, 215/257-5065, Gary A. Nace, bor. mgr.; 2,819 met.; no gen.; pur. 36,768,400 kWh; rev. $2,145,750. (1900)*

PITCAIRN Mun. Elec. Light Plant, 320 Center Ave., 15140, 412/372-3116, George H. Myers, mgr.; 1,910 met.; no gen.; pur. 9,000,000 kWh; rev. $543,842. (1901)*

QUAKERTOWN, Bor. of, Electric Dept., 15-35 N. 2nd St., Box 727, 18951, 215/536-5001, Nicolas Luca, bor. mgr.; 3,949 met.; no gen.; pur. 870,530,000 kWh; rev. $3,980,552. (1904)

ROYALTON, Bor. of, Elec. Light Dept., Burd and Dock Sts., Middletown, 17057, 717/944-4831, Gary Nagle, elec. comm. chmn.; 387 met.; no gen.; pur. 2,355,000 kWh; rev. $174,596. (1930)

ST. CLAIR Borough Elec. Light Dept., 39 N. Second St., 17970, 717/429-0640, Donald C. Hosler, gen. supt.

SCHUYLKILL HAVEN, Borough of, 39 Dock St., 17972, 717/385-2841, R. L. Waller, borough mgr.; 2,734 met.; no gen.; pur. 42,906,000 kWh; rev. $2,184,916.

SMETHPORT, Bor. of, Elec. Dept., 412 Water St., 16749, 814/887-5815, William H. Covert, Jr., elec. supt.; 981 met.; no gen.; pur. 9,862,800 kWh; rev. $586,885.

SUMMERHILL Borough Mun. Light Plant, Box 289, 15958, 814/495-5610, Janet S. Thomas, sec./treas.; 300 met.; no gen.; pur 2,373,600 kWh; rev. $102,368. (est. 1933).

WAMPUM Borough Elec. Dept., Box 65, 16157, 412/535-8241, Charles Kelly, maint. supt.; 400 met.; no gen.; pur. 3,275,900 kWh; rev. $150,000. (1910)

WATSONTOWN Borough Elec. Dept., Fourth and Main Sts., Box 273, 17777, 717/538-1000, Robert Barr, supt.; 1,050 met.; no gen.; pur. 12,992,900 kWh; rev. $642,500.

WEATHERLY Borough Elec. Dept., 10 Wilbur St., 18255, 717/427-8640, Beverly E. Knepper, bor. mgr.; 1,101 met.; no gen.; pur. 19,145,000 kWh; rev. $1,055,173.*

ZELIENOPLE Mun. Elec. Dept., 111 W. New Castle St., 16063, 412/452-7260, Charles M. Mick, supt.; 1,607 met.; no gen.; pur. 19.9 million kWh; rev. $1,050,860.

RHODE ISLAND

PASCOAG FIRE DISTRICT, 33 S. Main St., Pascoag, 02859, 401/568-6222, Howard C. Peters, gen. mgr.; 3,065 met.; no gen.; pur. 24,470,460 kWh; rev. $2,093,378. (1887)

SOUTH CAROLINA

ABBEVILLE Water & Elec., Box 639, 29620, 803/459-5058, Mike Moorhead, city engr.; 2,975 met.; gen. 3,724 kW, 2,600 kW hydro, 1,124 kW eng., 9,800,000 kWh, pur. 40,596,114 kWh; rev. $1,957,101. (1905)*

BAMBERG Bd. of Pub. Works, Box 300, 29003, 803/245-5128, James B. Roberts, supt.; 1,547 met.; no gen.; sales 36,201,818, kWh; rev. $1,460,105. (1905)

BENNETTSVILLE Elec., Water & Gas, Box 1036, John Corry Rd., 29512, 803/479-7192, Jimmy L. McColl, supt.; 4,483 met.; no gen.; pur. 76,921,000 kWh; rev. $3,562,651. (1903)

CAMDEN, City of, 1000 Lyttleton St., 29020, 803/432-2421, B. M. Paulling, city mgr., 8,331 met.; no gen.; sales 117,881,785 kWh; rev. $6,540,346. (1947)*

CLINTON, City of, 219 Gary St., Drawer 748, 29325, 803/833-1350, J. Russell Allen, city mgr.,; 3,350 met.; no gen.; pur. 81,771,064 kWh; rev. $3,919,735. (1907)

DUE WEST, Town of, Box 278, 29639, 803/379-2385, C. H. Hawthorne, supt.; 367 met.; no gen.; pur. 8,781,600 kWh; rev. $405,572. (prior to 1948)

EASLEY Combined Util. System, Box 605, 29640, 803/859-4013, Richard S. Hale, mgr.; 8,090 met.; no gen.; pur. 158,348,514 kWh; rev. $9,738,302. (1910)*

GAFFNEY Bd. of Pub. Works, 210 E. Frederick St., Box 64, 29340, 803/487-7171, Houston F. Crater Jr., mgr.; 7,902 met.; no gen.; pur. 135,187,199 kWh; rev. $5,761,920. (1907)*

GEORGETOWN Light & Water Dept., Box 1146, 29440, 803/546-5632, W. L. Hewitt, util., mgr.; 4,034 met.; no gen.; pur. 93,555,506 kWh; rev. $3,789,960.

GREENWOOD Comm. of Pub. Works, Box 549, 29648, 803/223-8571, Gerry Q. Crawford, mgr.; 10,414 met.; no gen.; pur. 178,102,839 kWh; rev. $7,373,771. (1896)*

GREER Comm. of Pub. Works, Box 216, 29652, 803/877-0171, Kenneth Smith, mgr. of oper.,& engr., 6,916 met.; no gen.; pur. 124,883,999 kWh; rev. $5,449,613. (1914)*

LAURENS Comm. of Pub. Works, Box 349, 29360, 803/984-2576, Sam

R. Wallace, mgr.; 5,625 met.; no gen.; pur. 78,537,600 kWh; rev. $3,412,387. (1922)*

McCORMICK Comm. of Pub. Works, 704 Calhoun St., Box 656, 29835, 803/465-2224, J. Eakin Cochran, supt.; 886 met.; no gen.; pur. 14,793,600 kWh; rev. $734,417. (1926)*

NEWBERRY, City of, Drawer 538, 29108, 803/276-0471, Steve D. Reeves Jr., utils. dir.; 4,446 met.; no gen.; pur. 109,868,040 kWh; rev. $4,974,358. (1923)*

ORANGEBURG Dept. of Pub. Utils., Box 1057, 29115 803/523-2828, Ted M. Johnson Jr., mgr.; 20,689 met.; no gen.; pur. 495,952,000 kWh; rev. $27,482,857. (1898)*

PROSPERITY, Town of, McNeary St., Box 36, 29127, 803/364-2616, J. Walter Hamm, mayor; 398 met.; no gen. (1920)

ROCK HILL, City of, Box 11706, 29731, 803/328-6171, C. A. Owen, utils. dir.; 16,211 met.; no gen.; pur. 356,014,939 kWh; rev. $17,536,012. (1910)*

SENECA Light & Water Plant, Box 4773, 29678, 803/882-8359, H. Jerry Balding, dir. of utils.; 4,512 met.; no gen.; pur. 84.1 million kWh; rev. $4,196,074. (1907)*

SOUTH CAROLINA PUBLIC SERVICE AUTHORITY (Santee Cooper), One Riverwood Drive, Box 398, Moncks Corner, 29461, 803/761-8000, William C. Mescher, pres.; 58,346 met.; gen. 2,532,975 kW, 100,000 kW oil, 1,768,800 kW coal (steam turbine), 300,000 kW nuclear, 229,560 kW comb. turbine, 134,615 kW hydro; 9,027,657,000 kWh; pur. 461,979,264 kWh, rev.$320,992,679. (1934)*

UNION, City of, Drawer K, 29379, 803/427-6282, T.D. Sherbert Jr., dir.; 6,368 met.; no gen.; pur. 98,362,400 kWh; rev. $4,466,222.(1897)*

WESTMINSTER Comm. of Pub. Works, Box 216, 29693, 803/647-5071 or 803/647-2026, Sam Stribling, supt.; 1,875 met.; no gen.; pur. 772,717 kWh; rev. $918,854. (1875)

WINNSBORO, Town of, Box 209, 29180, 803/635-4041, L.C. Greene, town mgr.; 2,655 met.; no gen.; pur. 42,451,200 kWh; rev. $2,046,360. (1910)

SOUTH DAKOTA

ARLINGTON Mun. Light Plant, 57212, Wayne Reit, supt.; 496 met.; gen. 800 kW eng.; pur. 8,640,700 kWh; rev. $265,670.

AURORA Mun. Elec., 57002, 605/693-3752, Elaine Waples, fin. off.; 231 met.; no gen.; pur. 3,279,087 kWh; rev. $128,490. (1968)

BADGER Elec. Light Dept., Box 84, 57214, 605/983-5385, Myron Anderson pres.; 75 met.; no gen.; pur. 1,200,000 kWh. (1956)

BERESFORD, City of, 101 N. Third St., 57004, 605/763-2008, Terry L. Peters, supt.; 928 met.; no gen.; pur. 13,416,000 kWh; rev. $474,529. (1950)*

BIG STONE CITY Mun. Elec. Dept., 57216, Box 246, 605/862-8121, Mary Jane Lempka, town clerk, 395 met.; pur.12,127,392 kWh; rev. $324,553.*

BROOKINGS Mun. Elec. Util., 525 Western Ave., Box 588, 57006, 605/692-6325, Craig Osvog, gen. mgr.; 6,004 met.;no gen.; pur. 133,642,000 kWh; rev. $4,338,759. (1899)*

BRYANT City Power & Light, 57221, 605/625-5221, Garry Ludwig, supt.; 212 met.; gen. 200 kW eng.; pur. 3.1 million kWh; rev. $86,103. (1958)

BURKE Maintenance Office, Box 312, 57523, 605/775-2692, Richard N. Bailey, supt. of utils.; 423 met.; no gen.; pur. 6,169,900 kWh; rev. $171,144. (1936)*

COLMAN, City of, Box 54, 57017, 605/534-3611, Donald Hilmoe, mayor; 250 met.; no gen.; pur. 6,000,000 kWh; rev. $210,427. (1965)

ELK POINT, City of, Box 280, 57025, 605/356-2631, Robert L. Eslick, supt.; 700 met.; no gen.; sales 9,099,710 kWh; rev. $444,000. (1918)

ESTELLINE Light & Power, Box 278, 57234, 605/873-2388, Donald A. Seeklander, city engr.; 376 met.; no gen.; pur. 6,811,762 kWh; rev. $241,886.

FAITH Mun. Elec. Co., Box 368, 57626, 605/967-2261, Donn Dupper, supt.; 240 met.; no gen.; rev. $86,546.*

FLANDREAU, City of, 136 Second Ave., E., 57028, 605/997-2671, Don Johnson, supt.; 1,288 met.; no gen.; pur. 15,851,000 kWh; rev $477,332.*

FORT PIERRE Mun. Elec., Box 637, 57532, 605/223-2508, James Klemann, city supt.; 725 met.; no gen.; pur. 13,500,000 kWh; rev. $385,000. (1900)*

GROTON, City of, Light Dept., Box 121, 57445, 605/397-2690, David Anderson, supt.; 532 met.; no gen.; pur. 9,196,128 kWh. (1921)

HECLA Light & Power Plant, 57446, 605/994-2080, Delwyn Tisher, supt.; 250 met.; gen. 200 kW eng.; pur. 3,742,467 kWh; rev. $109,237.

HOWARD, City of, Box 157, 57349, 605/772-4391, Ed Lutz, supt., 621 met.; no gen.; pur. 90,028 kWh; rev. $217,734.

LANGFORD, Town of, Box 191, 57454, 605/493-6772, Bruce A. Likness, pres.;180 met no gen.; pur. 2,438,635; rev. $84,440.(1935)

MADISON Mun. Elec. Util., 116 W. Center St., Box 308, 57042, 605/256-4586, Virgil Schoeberl, supt.; 2,672 met.; pur. 49.6 million kWh; rev. $1,357,736. (1922)*

McLAUGHLIN Mun. Power System, 57642, 605/823-4428, Edward Walker, mayor; 385 met.; no gen.; pur. 6,372,923 kWh; rev $164,786. (1969)

MILLER, City of, 120 W. Second St., 57362, 605/853-2705, Merle Dirksen, supt.; 1,014 met.; no gen.; pur. 24,049,961 kWh; rev. $514,220. (1904)

ONIDA, City of, Mun. Light & Water Works, Box 72, 57564, 605/258-2231, Jerry Culey, supt.; 400 met.; gen. 550 kW oil (eng.); pur. 6,000,000 kWh; rev. $291,551. (1926)

PARKER, City of, Box 265, 57053, Frisco D. Petersen, fin. officer; 547 met.; gen. 1005 kW eng.; rev. $158,527.*

PIERRE Mun. Elec., Box 1253, 57501, 605/224-7341, Dave Padgett, dir. pub. wks.; 5,504 met.; no gen.; pur. 113,001,016 kWh; rev. $3,817,891. (about 1900)*

PLANKINTON Light & Power Plant, 57368, 605/942-5361, Edwin Lutz, light supt.; 367 met.; no gen.; pur. 6,938,668 kWh; rev. $175,477. (1936)

SIOUX FALLS, City of, Light Dept., 2000 N. Minnesota Ave., 57104, 605/339-7150, Frank W. Josten, light dept. mgr.; 1,729 met.; no gen.; pur. 53,529,600 kWh; rev. $1,600,262. (1905)

TYNDALL Light & Water Plant, Box 29, 57066, 605/589-3481, Alfred J. Novotny, supt.; 620 met.; no gen.; pur. 10,171,779 kWh; rev. $362,615. (1911)

VERMILLION, City of, 25 Center St., 57069, 605/624-5246, James W. Antonen, city mgr.; 3,490 met.; gen. 2,300 kW oil (combus. eng.), pur. 37,083,000 kWh; rev. $1,542,154. (1915)*

VOLGA Mun. Light & Power, 108 Kasson Ave., 57071, 605/627-2341, Donald Brintnall, supt.; 600 met.; gen. 550 kW eng.; pur. 10,354,862 kWh; rev. $372,168. (1941)

WATERTOWN Mun. Utils., 901 Fourth Ave., S.W., 57201, 605/866-5733, J.R. Harty, supt.; 8,028 met.; no gen.; pur. 148,611,798 kWh; rev. $5,135,126. (1923)*

WESSINGTON SPRINGS Mun. Light & Power, 57382, 605/539-1691, Lawrence Myers, supt.; 560 met.; no gen.; pur. 7.8 million kWh; rev. $280,000. (1914)

WHITE, City of, 57276, 605/629-3521, Orvin Anderson, supt.; 218 met.; no gen.; pur. 3,152,417 kWh; rev. $191,036. (1978)

WINNER Mun. Utils., 217 E. Third St., 57580, Clair Turgeon, supt.; 2,020 met.; no gen.; pur. 35,390,743 kWh, rev. $857,045. (1948)*

(Oglala Sioux Tribal Council, Pine Ridge, S.D., and Oglala Sioux Housing Authority, Pine Ridge, S.D., own electric systems which are operated under lease agreements by Nebraska Public Power District, Columbus, Neb.)

TENNESSEE

(All local publicly owned electric utilities in Tennessee are distributors of Tennessee Valley Authority power and purchase all of their power requirements from TVA.)

ALCOA Utils Bd. (formerly Blount Elec. Sys.,) 264 Rankin Rd., Box 610, 37701, 615/982-4190, Mickey J. Bentley, city mgr.; 15,574 met.; no gen.; pur. 324.5 million kWh; rev. $14,764,768. (1956)*

ATHENS Utils. Bd., 100 Englewood Rd., Box 689, 37303, 615/745-4501, George H. Usry, gen. mgr.; 11,410 met.; no gen.; pur. 439,317,330 kWh; rev. $19,195,237. (1939)*

BENTON COUNTY BD. OF PUBLIC UTILITIES, 115 S. Church St., Camden, Box 445, 38320, 901/584-8251, Glenn C. Pafford, mgr.; 7,610 met.; pur. 162 million kWh; rev. $7,891,735. (1940)

BOLIVAR Elec. Dept., Box 188, 38008, 901/658-5257, Beryl F. Williams, mgr.; 8,603 met.; pur. 191,363,921 kWh; rev. $8,605,807. (1936)*

BRISTOL Elec. System, Box 549, 3762[illegible], 615/968-1526, R. Michael Browder, gen. mgr.; 24,164 met.; pur. 605,324,000 kWh; rev. $26,654,084. (1945)*

BROWNSVILLE Util. Dept., Box 424, 38012, 901/772-1213, John F. Sharpe, mgr.; 4,087 met.; pur. 103.6 million kWh; rev. $4,674,725. (1939)*

CARROLL COUNTY Elec. Dept., Box 527, Huntingdon, 38344, 901/986-8284, J. B. McMillin, mgr.; 12,967 met.; no gen.; pur. 251,855,730 kWh; rev. $12,224,100. (1938)*

CHATTANOOGA Elec. Power Bd., 6th & Market Sts., 37402, 615/629-3300, Kenneth S. Baxter, gen. mgr.; 126,656 met.; pur. 4,818,426,000 kWh; rev. $206,838,144. (1935)*

CLARKSVILLE Dept. of Elec., 2021 Guthrie Hgwy., Box 1007, 37041-1007, 615/648-8151, Dalton B. Smith, gen. mgr.; 21,712 met.; pur. 572,191,455 kWh; rev. $26,607,631. (1939)*

CLEVELAND Utils., Box 2730, 37311, 615/472-4521, M. E. Beavers, gen. mgr.; 19,081 met.; pur. 608,179,200 kWh; rev. $26,246,524. (1939)*

CLINTON Utils. Bd., Box 296, 37716, 615/457-9232, Byron H. Hale, mgr.; 20,632 met.; pur. 488,624,836 kWh; rev. $22,693,312. (1939)

COLUMBIA Power System, Box 379, 38401, 615/388-4833, William M. Carroll III, mgr.; 15,271 met.; pur. 372.2 million kWh; rev. $16,715,374. (1939)

COOKEVILLE Elec. Dept., Box 998, 38503-0998, 615/526-9591, W.R. Holland, supt.; 9,606 met.; pur. 305,712,761 kWh; rev. $13,966,620. (1904)*

COVINGTON Elec. System, Box 488, 38019, 901/476-7104, Leo Wingate Jr., mgr.; 2,998 met.; pur. 108,281,336 kWh; rev. $4,901,456. (1904)*

DAYTON Electric, Box 226, 37321, 615/775-1818, Paul Hill, supt.; 6,125 met.; pur. 149.5 million kWh; rev. $6,462,913. (1927)

DICKSON Elec. Dept., 121 S. Main St., Box 627, 37055, 615/446-9051, Ernest R. Brown, mgr.; 17,130 met.; pur. 343.8 million kWh; rev. $15,822,967. (1936)

DYERSBURG Elec. System, Box 664, 38025, 901/285-2941, J. P. Crawford, mgr.; 9,821 met.; pur. 364,493,145 kWh; rev. $16,101,141. (1902)*

ELIZABETHTON Elec. System, Box 790, 37643, 615/542-2101, Frank L. Curde, mgr.; 18,577 met.; pur. 393,209,472 kWh; rev. $17,436,626. (1945)*

ERWIN Utils., 244 Love Street, 37650, 615/743-6191, Howard C. Brown, mgr.; 6,870 met.; pur. 171,464,400 kWh; rev. $7,512,128. (1945)

ETOWAH Utils. Dept., Drawer N. 37331-0614, 615/263-9441, Paul R. Sitzlar, mgr.; 3,822 met.; pur. 108.9 million kWh; rev. $4,859,018. (1937)*

FAYETTEVILLE Elec. System, Drawer E., 37334, 615/433-1522, Walter J. Szelich Jr., mgr.; 12,903 met.; no gen.; pur. 257,331,049 kWh; rev. $12,976,984. (1937)*

GALLATIN, City of, Dept. of Elec., Box 167, 37066, 615/452-5152, William N. Parker, supt.; 7,294 met.; pur. 26,501,484 kWh; rev. $ 3,282,863. (1939)*

GREENEVILLE Light & Power System, Box 420, 37743, 615/639-8121, Robert C. Lay, mgr.; 24,217 met.; pur. 652.9 million kWh; rev. $29,928,339. (1945)*

HARRIMAN Util. Bd., 300 Roane St., Box 434, 37748, 615/882-3242, Jack Howard, mgr.; 9,292 met.; pur. 246.9 million kWh; rev. $11,464,681. (1939)

HUMBOLDT Utils., 207 S. Thirteenth Ave., 38343, 901/784-9212, Stan Little, gen. mgr.; 4,363 met.; no gen.; pur. 180,382,036 kWh; rev. $7,948,458. (1939)*

JACKSON Util. Div., 119 E. College, Box 68, 38302-0068, 901/422-7500, Joe H. Exum, gen. mgr.; 25,164 met.; no gen.; pur. 860,349,430 kWh; rev. $36,362,694. (1937)*

JELLICO Elec. System, Box 510, 400 S. Main St., 37762, 615/784-8431, John W. Leach Jr., mgr.; 4,189 met.; pur. 69.4 million kWh; rev. $3,322,379. (1935)

JOHNSON CITY Power Bd., 100 N. Roan St., Box 1636, 37601, 615/928-2112, Roy L. Taylor, mgr.; 44,753 met.; no gen.; pur. 1,1211,551,576 kWh; rev. $48,469,116. (TVA) (1945)*

KNOXVILLE Utils. Bd.,626 Gay St., Box 1951, 37901, 615/524-2911, Edwin C. Hoskins, gen. mgr.; 133,730 met.; pur. 4,040,324,437 kWh; rev. $176,505,904. (TVA) (1938)*

LA FOLLETTE, City of, Elec. Dept., 301 N. Tennessee Ave., Box 1411, 37766, 615/562-3316, Leonard E. Watson, gen. mgr.; 14,459 met.; pur. 290.2 million kWh; rev. $13,667,118. (1939)*

LAWRENCEBURG Power System, 1607 N. Locust Ave., Box 649, 38464, 615/762-7161, James W. Collins, supt.; 14,223 met.; pur. 300.6 million kWh; rev. $13,817,220. (1939)

LEBANON City Pub. Wks. Dept., 410 Park Dr., 37087, 615/444-0825, Jessie Coe, mgr.; 6,587 met.; pur. 235 million kWh; rev. $10,168,147. (1942)

LENOIR CITY Utils. Bd., Box 449, 37771, 615/986-6591, Kenneth Dutton, mgr.; 25,048 met.; pur. 626,240,679 kWh; rev. $27,807,950. (1938)

LEWISBURG Elec. System, 599 N. 50A Bypass, 37091, 615/359-2544, Richard Turner, gen. mgr.; 4,160 met.; no gen.; pur. 165,076,959 kWh; rev. $7,237,211. (1938)*

LEXINGTON Elec. System, 92 Main St., 38351, 901/968-3662, Travis Lewis, mgr.; 15,532 met.; pur. 276,680,181 kWh; rev. $12,279,017. (1939)*

LOUDON Utils., Drawer E, Alma Place, 37774, 615/458-2091, James M. Smith, city mgr.; 4,519 met.; pur. 193.9 million kWh; rev. $8,188,785. (1935)*

MARYVILLE Utils. Bd., 400 W. Broadway, Box 667, 37801, 615/984-7900, Tomie Burchfield, mgr.; 13,630 met.; pur. 299.2 million kWh; rev. $13,585,025. (1939)

McMINNVILLE Elec. System, 200 Morford St., Box 608, 37110, 615/473-3144, Donald R. Collette, gen. mgr.; 5,801 met.; pur. 170,827,851 kWh; rev. $7,815,001. (TVA) (1939)*

MEMPHIS Light, Gas & Water Div., 220 So. Main, Box 430, 38101, 901/528-4607, Larry Papasan, pres.; 312,149 met.; no gen.; pur. 9,394,965,126 kWh; rev. $414,661,287. (1939)*

MILAN Dept. of Pub. Util., 407 S. Second Street, Box 109, 38358, 901/686-1537, Harold L. Crenshaw, supt.; 6,516 met.; no gen.; pur. 178,699,710 kWh; rev. $7,747,672. (1897)*

MORRISTOWN Power Sys., 441 W. Main St., 37814, 615/586-4121, James E. Akins, gen.mgr.; 10,612 met.; pur. 431,396,310 kWh; rev. $20,293,876. (1901)*

MOUNT PLEASANT Power System, Box 186, 38474, 615/379-3233, Dan Gibson Jr., mgr.; 3,013 met.; pur. 70,309,003 kWh; rev. $3,104,282. (1935)

MURFREESBORO Elec. Box 9, 37133, 615/893-5514, Larry D. Kirk, gen. mgr.; 16,306 met.; no gen.; pur. 613,473,784 kWh; rev. $27,323,600. (1939)*

NASHVILLE Elec. Service, 1214 Church St., 37246, 615/747-3831, Paul P. Hembree, gen. mgr.; 214,764 met.; pur. 8,542,880,863 kWh; rev. $376,355,034. (1939)*

NEWBERN Elec. Sys., Box J, 38059, 901/627-3221, Donald R. Campbell, dir. pub. works; 1,322 met.; pur. 30.8 million kWh; rev. $1,490,050. (1938)*

NEWPORT Elec. System, Box 519, 37821, 615/623-3074, Lindsay Boyd, gen. mgr.; 14,178 met.; pur. 322,284,051 kWh; rev. $14,539,471. (TVA) (1939)*

OAK RIDGE, City of, Box 1, 37830, 615/483-5671, Phillip M. Marcum, supt.; 12,699 met.; pur. 332 million kWh; rev. $15,203,973. (1960)

PARIS Bd. of Pub. Utils., Box 460, 38242, 901/642-1322, Charles R. Perry, supt.; 15,261 met.; pur. 382,348,486 kWh; rev. $16,255,545. (1938)*

PULASKI Elec. System, Box 368, 38478, 615/363-2522, James A. Hanna, supt.; 10,666 met.; pur. 310,887,381 kWh; rev. $13,872,533. (1890)

RIPLEY Power & Light Co., Box 69, 38063, 901/635-2323, Mike Allmand, mgr.; 5,537 met.; pur. 196,177,558 kWh; rev. $7,631,808. (1939)*

ROCKWOOD Elec. Util., Box 108, 37854, 615/354-0514, Charles W. Johnson, gen. mgr.; 10,018 met.; pur. 216,056,084 kWh; rev. $9,983,427. (1939)*

SEVIER COUNTY Elec. System, 114 Church St., Box 310, Sevierville, 37862, 615/453-2887, George Seaton, supt.; 19,989 met.; pur. 503.8 million kWh; rev. $23,885,790. (1939)*

SHELBYVILLE Power System, 308 S. Main St., 37160, 615/684-7171, Eugene Crowell, mgr.; 6,466 met.; no gen.; pur. 217,688,400 kWh; rev. $10,114,337. (1939)

SMITHVILLE Elec. System, Box 228, 37166, 615/597-4735, Mark Ashburn, mgr.; 2,099 met.; pur. 54.7 million kWh; rev. $2,567,652. (1969)

SOMERVILLE Light, Gas & Water, 106 E. Court Square, 38068, 901/465-3676, Kennie German, mgr.; 1,252 met.; pur. 27.3 million kWh; rev. $1,275,517. (1936)*

SPARTA Elect. Sys., Box 468, 38583, 615/738-2281, Wayne Rogers, 2,473 met.; pur. 75,693,600 kWh; rev. $3,197,019. (1962)

SPRINGFIELD Dept. of Elec., 123 Fifth Ave., W., 37172, 615/384-3561, W. Royce Williams, supt.; 4,611 met.; pur. 138,475,181 kWh; rev. $6,535,544. (1905)*

SWEETWATER Bd. of Pub. Utils., Box 191, 37874, 615/337-6890, Lewis Wayne Roach, gen. mgr.; 5,556 met.; pur. 145,907,050 kWh; rev. $6,843,726. (1939)*

TRENTON, City of, Elec. Dept., 309 College St., 38382, 901/855-1561, Paul Bennett, mgr.; 2,443 met.; pur. 75.3 million kWh; rev. $3,379,726. (1938)*

TULLAHOMA Bd. of Pub. Utils., 901 S. Jackson, 37388, 615/455-4515, Bob G. Burton, gen. mgr.; 7,735 met.; pur. 204,028,993 kWh; rev. $9,311,189. (1947)*

UNION CITY Elec. System, 312 N. Division St., 38261, 901/885-9212, Stanley R. McMinn, mgr.; 5,254 met.; pur. 324,632,772 kWh; rev. $13,430,839. (1952)*

WEAKLEY COUNTY Mun. Elec. System, Box 170, Martin, 38237, 901/587-9521, Gerald Brooks, supt.; 16,418 met.; pur. 414,262,481 kWh; rev. $17,933,288. (1938)*

WINCHESTER Utility System, 219 Second Ave., N.W., 37398, 615/967-2238, Lynn Bean, mgr.; 3,575, met.; pur. 86,764,090 kWh; rev. $3,889,674. (1935)

TEXAS

AUSTIN, City of, Elec. Dept., Box 1088, 78767, 512/440-0400, John Moore, dir., elec. dept.; 201,574 met.; gen. 600,000 kW coal, 1,488,000 kW gas, 5,099,289,000 kWh; kWh; rev. $306,733,835. (1895)*

BARTLETT, City of, 140 W. Clark 76511, 817/527-3557, Mike Williams util. supt.; 650 met.; no gen.; pur. 6,384,000 kWh. (1920)

BASTROP Elec. Dept., 904 Main St., Box S, 78602, 512/321-3941, Ben Wesson, dir. of elec. serv.; 1,743 met.

BELLVILLE, City of, Elec., Drawer 817, 77418, 409/865-3136, John Mumme, city adm.; 1,922 met.; no gen.; pur. 37,219,866 kWh; rev. $2,041,680. (1940)

BOERNE, City of, Utils., Box 1677, 78006, 512/249-3970, Edgar Schwarz Jr., city admr.; 1,950 met.; no gen.; pur. 29,000,000 kWh. (1941)*

BOWIE City of, 410 E. Pecan, 76230, 817/872-5612, Hank Cunningham, city mgr.; 2,924 met.; no gen.

BRADY, City of, Power Plant, 212 W. Commerce, 76825, 915/597-2152, Dennis Jones, city supt.; 3,583 met.; gen. 2,500 kW oil-fired, 13,850 kW dual-fuel, 5,688,000 kWh; sales 48,540,000 kWh; rev. $11,432,780. (1912)

BRAZOS RIVER AUTHORITY, 4400 Cobbs Dr., Box 7555, Waco, 76710, 817/776-1441, Carson Hoge, gen. mgr.;1 met; gen. 22,500 kW hydro, 26,848,000 kWh; rev. $311,950. (1929)

BRENHAM, City of, Mun. Light & Power System, 210 N. Park St., Box 361, 77833, 409/836-7911, Leslie D. Clayton, mayor; 5,698 met.; no gen.; sales 142,418,765 kWh; rev. $6,060,989. (1941)

BRIDGEPORT Light & Power System, 812 Halsell, 76030, Doug Whitehead, asst. city adm.; 1,800 met.; no gen.; pur. 260 million kWh; rev. $1.7 million. (1926)

BROWNFIELD Mun. Power Plant, 218 W. Main St., 79316, 806/637-4547, R. C. Fletcher, city mgr.; 4,543 met.; gen. 6,500 kW gas (combus. turbine), 16,420 kW gas (eng.), 8,832,500 kWh; pur. 53,904,000 kWh.; rev. $2,990,789. (1923)

BROWNSVILLE Pub. Util. Bd., Box 3270, 78520, 512/542-6286, Bill Towers, gen. mgr.; 26,170 met.; gen 96,000 kW, 44,000 kW gas (steam), 52,000 kW gas turbine, 10,833,300 kWh; pur. 527,392,000 kWh; rev. $35,100,891. (1904)*

BRYAN, Utils., Box 1000, 77805, 409/779-5622, Dan Wilkerson, 21,646 met.; gen. 240,000 kW, 220,000 kW steam turbine (gas), 20,000 gas turbine, 307,540,840 kWh; pur. 221,784,593 kWh; rev. $37,481,490. (1919)*

BURNET Utils., 127 E. Jackson St., 78611, 512/756-6093, Kenneth Taylor, city mgr.; 1,500 met.; no gen.; rev. $1,690,104.

CALDWELL Mun. Light Dept., 214 W. Buck St., 77836, 409/567-3271, Willis Gilliam, supt.; 1,648 met.; no gen.; pur. 31.0 million kWh; rev. $1,318,916.

CASTROVILLE Util. Sys., Box 479, 78009, 512/538-2224, James W. McAnelly, util. mgr.; 746 met.; no gen.; pur. 10,486,740 kWh; rev. $680,564. (1948)

COLEMAN Mun. Light & Power, Box 592, 76834, 915/625-2939, Elmer Rodgers, supt.; 2,800 met.; gen. 12,500 kW, 2,250 kW gas-fired eng., 10,250 kW dual-fuel eng., 16,682,000 kWh; pur. 24,700,000 kWh; rev. $1,821,323. (1904)

COLLEGE STATION, City of, 1101 Texas Ave., Box 9960, 77840, 409/696-8868, Linda S. Pioonka; 10,667 met.; no gen.; pur. 220,854,800 kWh; rev. $9,295,153. (1938)

CUERO, City of, Box 512, 77954, 512/275-6114, James H. Pratt, city mgr.; 3,527 met.; no gen.; pur. 72,019,200 kWh; rev. $3,966,545.

DENTON Mun. Utils., 215 E. McKinney, 76201, 817/566-8230, Robert E. Nelson, dir. of utils.; 20,030 met.; gen. 173,945 kW, 173,920 kW steam turbine (gas), 84,472,386 kWh; pur. 524,931,561 kWh; rev. $35,926,961. (1905)*

ELECTRA City of, 101 N. Main, 76360, 817/495-2146, Danny Neff, elec. supt.; 1,520 met.; gen. 3,450 kW, 2,200 kW gas-fired eng., 1,250 kW dual-fuel eng., 211,000 kWh; pur. 12,587,155 kWh; rev. $1,547,972. (1939)

FARMERSVILLE, City of, 303 S. Main, 75031, 214/782-6151; Ron Holifield, city mgr.; 1,291 met.; no gen. (1930).

FLATONIA Elec. Dept., Box 375, 78941, 512/865-3548; Daniel F. Janak, supt.; 955 met.; no gen.; pur. 13,997,792 kWh; rev. $769,024. (1945)

FLORESVILLE, City of, Elec. Light & Power System, Box 218, 78114, 512/393-6512, Fred R. Wauters, gen. mgr.; 6,799 met.; no gen.; pur. 94,567,280 kWh; rev. $6,807,747. (1943)

FLOYDADA Power & Light Dept., Box 10, 79235, 806/983-2834, William A. Feuerbacher, city mgr.; 1,223 met.; gen. 7,540 kW, 3,250 kW gas-fired eng., 4,290 kW dual-fuel eng., 1,835,900 kWh; pur. 13,569,600 kWh; rev. $974,603. (1939)

FREDERICKSBURG, City of, Box 111, 78624, 512/997-7521, Walter O. Fuhrmann, util. mgr.; 3,734 met.; no gen.; sales 57,371,261 kWh; rev. $2,858,235. (1935)*

GARLAND Power & Light System, Box 401889, 75040, 214/494-7251, Robert E. Corder, elec. util. dir.; 45,379 met.; gen. 440,840 kW steam turbine (gas), 1,103,958,000 kWh; pur. 199,398,000 kWh; rev. $90,108,754. (1922)*

GARRISON, City of, Box 207, 75946, 409/347-2201; Elmer Boatman, city supt.; 532 met.; no gen.; pur. 6,956,800 kWh; rev. $333,053.

GEORGETOWN, City of, Box 409, 78626, 512/863-5533, Leo Wood, city mgr.; 4,800 met.; no gen.; pur. 91,000,000 kWh; rev. $4,454,000.

GIDDINGS, City of, Lighting & Power System, 118 E. Richmond St., 78942, 409/542-2311, Larry Pippen, city mgr.; 2,112 met.; no gen.; sales 34,082,032 kWh; rev. $2,188,081. (1941)

GOLDTHWAITE, City of, 1218 Fisher St., Box 450, 76844, 915/648-3186, Dale Allen, city mgr.; 1,046 met.;pur. 13,390,000; rev. $816,110. (1941)

GONZALES, City of, Box 547, 78629, 512/672-2815, Calvin E. Spacek, city mgr.; 3,048 met.; no gen.; pur. 61,749,100 kWh; rev. $847,473. (1941)

GRANBURY Mun. Utils., 111 S. Houston, Box 969, 76048, 817/573-1114, Robert Coffelt, city mgr.; 2,056 met.; no gen.; pur. 41,437,000 kWh; rev. $3,478,673. (1921)

GREENVILLE, Mun. Lt. & Pwr. Co., Box 1049, 75401, 214/455-2880, John W. Tarpley, utils. dir.; 9,654 met.; gen. 95,500 kW, 80,500 kW steam turbine (gas), 3,800 kW oil-fired eng., 1,700 kW gas-fired eng., 82,167,890 kWh; pur. 193,861,000 kWh; rev. $6,984,068. (1891)*

GUADALUPE-BLANCO RIVER AUTHORITY, Box 271, Seguin, 78155, 512/379-5822, John Specht, gen. mgr.; 1 met.; gen. 16,080 kW hydro, 53,713,000 kWh; sales 53,713,000 kWh; rev. $1,329,702. (1963)*

HALLETSVILLE Mun. Utils., Box 257, 77964, 512/798-3681, Thomas H. Kostelnik, dir. pub. wrks., 1,400 met.; no gen.; pur. 29,756,200 kWh. (1891)

HEARNE Mun. Elec. System, 210 Cedar St., Box 151, 77859, 409/279-3461, Thomas Taylor, city mgr.; 2,400 met.; gen. 6,500 kW dual-fuel eng., 4,500 kW gas, 2,000 kW oil, 6,500 kW gas turbine; pur. 35,000,000 kWh; rev. $2,100,000. (1912)

HEMPSTEAD, City of, 1125 Austin St., 77445, 409/826-2486, James Vines, mgr. of utils.; 1,716 met.; no gen.; pur. 29.2 million kWh; rev. $670,174. (1940)

HONDO, Elec. System, 1600 Ave. M, 78861, 512/426-3377, Oscar Dominguez, mgr.; 2,493 met.; no gen.; pur. 39,725,000 kWh; rev. $2,514,119. (1942)

JASPER Light & Power, 272 E. Lamar St., 75951, 409/384-4651, Wayne DuBose, city mgr.; 3,934 met.; no gen.; pur. 111,588,000 kWh; rev. $6,434,201. (1948)*

KIRBYVILLE Light & Power Co., 312 E. Drew, 75956, 409/423-2464, C. B. Herndon, mgr.; 1,074 met.; no gen.; pur. 15,330,546 kWh; rev. $725,206. (1974)

LA GRANGE Elec. Utils., Box 339, 78945, 409/968-5805, Werner Von Minden, util. mgr.; 2,698 met.; no gen.; pur. 42.4 million kWh; rev. $2,560,070.

LAMPASAS, City of, 302 E. Third St., Box 666, 76550, 512/556-3641, Carole Heller, city secy.; 3,500 met.; no gen.; pur. 62.2 million kWh; rev. $3,378,432. (1946)

LEXINGTON Mun. Plants, Box 56, 78947, 409/773-2221, W. D. Eyner, mayor; 575 met.; no gen.; pur. 7,808,700 kWh; rev. $425,687. (1938)

LIBERTY Mun. Elec. System, 1829 Sam Houston St., 77575, 409/336-3684, Roy N. Bennett, city mgr.; 3,758 met.; no gen.; pur. 140,192,890 kWh; rev. $5,728,280. (1939)

LIVINGSTON Mun. Elec. System, 200 W. Church, 77351, 409/327-4311, Tom Nevinger, city mgr.; 2,396 met.; no gen.; pur. 52,488,800 kWh; rev. $2,671,905.

LLANO, City of, Utils., 301 W. Main St., 78643, 915/247-4158, George C. Rogers, city mgr.; 1,594 met.; no gen.; pur. 26,090,400 kWh; rev. $1,730,095. (1946)

LOCKHART, City of, Utils., 308 W. San Antonio St., Box 239, 78644, 512/398-3461, Cecil E. Massey, city mgr.; 3,092 met.; no gen.; pur. 44,145,900 kWh; rev. $2,524,373. (1928)

LOWER COLORADO RIVER AUTHORITY, Box 220, Austin, 78767, 512/473-3200, Elof Soderberg, gen. mgr.; 24,891 met. gen. 1,830,000 kW, 550,000 kW steam turbine (coal), 1,050,000 kW steam turbine (gas), 230,000 kW hydro, 5,780,192,500 kWh; pur. 59,088,977 kWh; rev. $243,769,331. (1935)*

LUBBOCK Power & Light, Box 2000, 79457, 806/763-9381, Carroll McDonald, elec. utils. dir., 31,593 met.; gen. 200,000 kW, 178,150 kW steam turbine (gas), 21,850 kW comb. turbine (gas), 559,615,170 kWh; pur. 710,668,170 kWh; rev. $45,143,848. (1916)*

LULING Utils., 509 E. Crockett, Box 630, 78648, 512/875-2115, Reuben Kimball, city mgr.; 2,362 met.; no gen.; pur. 39 million kWh; rev. $2,212,519. (1941)

MASON, City of, Utils., 124 Moody St., Box 68, 76856, 915/347-6449, Carlton Crouch, city mgr.; 1,629 met.; no gen.; pur. 14,995,949 kWh; rev. $181,964. (1955)

MOULTON, City of, Box 369, 77975, 512/596-4621, Richard Kresta Jr., mgr.; 607 met.; no gen.; pur. 9.3 million kWh; rev. $444,874. (1939)

NEW BRAUNFELS Utils., Box 289, 78131-0289, 512/629-8400, Robert H. Sohn, gen. mgr.; 13,161 met.; gen. 900 kW hydro, 4,399,200 kWh; pur. 536,838,880 kWh; rev. $26,164,839. (1942)*

NEWTON, City of, Box 889, 75966, 409/379-5061, Betty Simmons, city clerk; 846 met. (1936)

PLAINS, City of, 601 E. 11th, Box 550, 79355, 806/456-2288, Viola Walker, city mgr.; 350 met.; no gen.; rev. $333,000.

ROBSTOWN, City of Utils., 101 E. Main St., Box 71, 78380, 512/387-3554, John J. Foster, supt. of utils.; 4,478 met.; gen. 18,159 kW, 16,815 kW dual-fuel eng., 1,344 kW gas-fired eng., pur. 14,800,000 kWh; rev. $6,479,440. (1939)*

SABINE RIVER AUTHORITY OF TEXAS, Box 569, Orange 77630, 409/883-9334, Sam Collins, gen. mgr. (The Texas and Louisiana Sabine River authorities jointly operated the 85,000-kW Toledo Bend Dam and sell the output to three private power companies.)

SAN ANTONIO City Pub. Service Box 1771, 78296, 512/227-3211, J.K. Spruce, gen. mgr.; 383,615 met.; gen. 836,000 kW coal, 2,400,000 kW gas; 8,912,205,900 kWh; pur. none; rev. $534,751,158. (1942)*

SAN AUGUSTINE, City of, 301 S. Harrison St., 75972, 409/275-2121, Alton Shaw, city mgr.; 1,150 met.; no gen.; pur. 15,000,000 kWh; rev. $454,869. (1917)

SANGER Elec. System, Box 578, 76266, 817/458-7930, Lloyd Henderson, city mgr.; 1,200 met.; pur. 18,445,000 kWh, rev. $1,460,968. (1929)

SCHULENBURG Utils. Dept., Box 8, 78956, 409/743-4126, S. M. Barrington, mgr.; 1,517 met.; no gen.; pur. 26,439,000 kWh; rev. $1,323,744. (1941)

SEGUIN City of, Box 591, 78155, 512/379-3212, Bill E. Polasek Jr., dir. utils & pub. works; 7,070 met.; gen. 500 kW; 250 kW oil-fired eng.; 250 hydro; 1,376,100 kWh; pur. 131,689,900 kWh; rev. $7,610,000. (1907)

SEYMOUR, City of, Box 31, 76380, 817/888-3148, Kevin P. Evans, city admin.; 1,225 met.; no gen.; pur. 19,027,200 kWh; rev. $1,237,371. (1929)

SHINER Light & Water Utils., Box 308, 77984, 512/594-3362, Johnny Kurtz, elec. supt.; 1,000 met.; no gen.

SMITHVILLE City of, Utils., 317 Main St., Box 449, 78957, 512/237-3267, James D. Reader, mayor; 1,788 met.; no gen.; pur. 24,590,400 kWh; rev. $1,409,238. (1939)

SONORA, City of, 201 N. Main, 76950, 915/387-2662, Roy L. Taylor, mgr.; 1,658, met.; no gen.; pur. 20,500,522 kWh; rev. $1,055,457. (1942)*

TIMPSON, City of, Box 369, 75975, 409/254-2421, W. H. Eddins, supt.; 650 met.; no gen.

TULIA, City of, Power & Light, 201 N. Maxwell St., 79088, 806/995-3547, N.D. Waggoner, elec. util. dir.; 2,192 met.; gen. 17,636 kW dual-fuel eng., 10,437,000 kWh; pur. 20,181,600; rev. $2,088,195. (1912)

TRINITY RIVER AUTHORITY, Box 60, Arlington, 76010, 817/467-4343, Danny Vance, mgr. (The authority is considering development of a 60-MW hydro project at Lake Livingston.) (1955)*

WAELDER, City of, Box 427, 78959, 512/665-3131, Joe Parr, mayor; 421 met.; no gen.; pur. 6,093,420 kWh; rev. $404,052. (1927)

WEATHERFORD Mun. Util. System, 119 Palo Pinto St., Box 255, 76086, 817/594-5441, Tom Merka, utils. dir.; 7,033 met.; no gen.; pur. 120,993,200 kWh; rev. $7,418,290. (1940)*

WEIMAR, City of, 106 E. Main St., Box 67, 78962, 409/725-8554, F.E. Parks, city mgr.; 1,091 met.; no gen.; pur. 24,869,490 kWh; rev. $1,552,158. (1939)

WHITESBORO Elec. System, Box 340, 76273, 214/564-3311, Faye Lynn Anderson, city admin.

YOAKUM, City of, Utils., Box 738, 77995, 512/293-3148, Terry K. Roberts, city mgr.; 2,958 met.; no gen.; pur. 48,844,500 kWh; rev. $2,816,554.

UTAH

BEAVER CITY Corp., Box 271, 84713, 801/438-2451, Robert O. Christiansen, mayor; 999 met.; gen. 625 kW hydro, 4,419,800 kWh; pur. 14,287,125 kWh.; rev. $877,295.

BLANDING Elec. Dept., 50 West 100 S., 84511, 801/678-2791, Francis D. Nielson, mgr.; 1,200 met.

BOUNTIFUL City of, Light & Power, 198 S. 200 West, 84010, 801/292-2511, Cliff Michaelis, dir., 10,679 met.; gen. 8,200 kW, 700 kW oil, 400 kW gas, 7,100 kW dual-fuel (comb. eng.) 670,900 kWh;pur. 170,089,729 kWh; rev. $6,230,778. (1935)*

BRIGHAM City Light & Power, 20 N. Main, 84302, 801/734-2001, Jim Davis, supt.; 5,833 met.; gen. 1,750 kW hydro, 9,859,900 kWh; pur. 59,707,607 kWh, rev. $3,199,680. (1905)*

ENTERPRISE, City of, Box 336, 84725, 801/878-2212, Richard P. Truman, supt.; 434 met.; no gen.; pur. 5,688,000 kWh. (1972)*

EPHRAIM City Light and Power Dept., Box 687, 5 S. Main, 84627, 801/283-4631, Dick Bailey, mgr.; 700 met.; gen. 200 kW hydro, 1.1 million kWh; pur. 16.1 million kWh; rev. $177,500.

FAIRVIEW Mun. Light & Power Plant, 84629, 801/427-3858, Ray D. Eicher, mayor; 380 met.; no gen.; pur. 5.7 million kWh.

FILLMORE CITY, 96 S. Main St.,

84631, 801/745-5314, Ralph Robinson, mgr.; 871 met.; no gen.; pur. 24.2 million kWh, rev. $606,589. (1918)

HEBER Light & Power Co., 31 S. 100 West, Box 330, Heber City, 84032, 801/654-1581, Ray Farrell, gen. mgr.; 3,500 met.; gen. 2,325 hydro, 10,859,000 kWh; pur. 33.4 million kWh; rev. $2,450,000 (1909)*

HELPER CITY Corp., 73 S. Main, Box 221, 84526, 801/472-5391, Robert A. Farrell, councilman; 1,208 met.; pur. 14,114,430 kWh. (1900)

HOLDEN Elec. Light System, 84636, 801/795-2253, Evan B. Stevens, electrician; 165 met.; no gen.; pur. 1.5 million kWh; rev. $61,000. (1922)

HURRICANE City Power, Box 580, 84737, 801/635-2811, Rick Marchal, mgr.; 1,260 met.; no gen.; pur. 5,568,400 kWh; rev. $882,619. (1974)*

HYRUM City Corp., 83 W. Main, 84319, 801/245-6033, Reece D. Nielsen, chmn., power bd.; 1,412 met.; gen. 400 kW hydro, 2,541,616 kWh; pur. 33,204,780 kWh; rev. $1,777,205.*

KANOSH Town Corp., Box 96, 84637, Frank Harding; 214 met.; no gen.; pur. 1,955,156 kWh.

KAYSVILLE City Corp., 44 No. Main, 84037, 801/546-1235, Walt Meacham, supt. elec. dept.; 2,959 met.; no gen.; pur. 35,458,789 kWh; rev. $2,102,400. (1908)

LEHI CITY, 95 E. 100 North, 84043, 801/768-3545, Glen A. Carter, mgr.; 2,600 met.; no gen.; pur. 19.3 million kWh. (1926)

LEVAN Mun. Elec. System, Box 143, 31550 2nd East, 84639, 801/623-1600, Golden Mangelson, mayor, 217 met.; no gen.; pur. 3,008,005 kWh; rev. $72,000. (1919)*

LOGAN, City of, Power & Light Dept., 61 W. 100 North St., Box 527, 84321, 801/752-3060, Vaun Bethers, supt., 15,659 met.; gen. 7,060 kW oil, 1,400 kW hydro, 6,328,120 kWh; sales 137,168,462 kWh; rev. $7,413,313. (1903)*

MANTI Light & Power, 191 N. Main 84642, 801/835-2401, Gene Rogers, mgr.; 900 met.

MEADOW Town Corp., Box 180, 84644, 801/842-7281, Dennis L. Bond, councilman; 130 met.; no gen.; pur. 1,596,700 kWh; rev. $95,984.60. (est. 1910)

MONROE City Elec. Light Dept., Box A, 55 N. Main 84754, 801/527-3511, Duane E. Nay, mayor; gen. 225 kW hydro, 1.4 million kWh; pur. 9.3 million kWh.

MORGAN City Corp., Box 267, 84050, 801/829-3551, Dennis D. Woolsey, mgr.; 767 met.; rev. $223,600. (1933)*

MT. PLEASANT Mun. Elec. Light & Power, 115 W. Main St., 84647, 801/462-2456, John Thacker, city mgr.; 750 met.; gen. 300 kW hydro, pur. 12.5 million kWh.

MURRAY City Power Dept., 4800 South 153 West, 84107, 801/264-2651, Jon C. Young, gen. mgr.; 12,957 met.; gen. 8,378 kW comb. turbine, 4,279,000 kWh; pur. 209,209,000 kWh; rev. $9,386,637. (1913)*

NEPHI City Power, 21 E. 100 North, 84648, 801/623-0276, G. Richard Judd, supt.; 1,500 met.; no gen.; pur 27 million kWh; rev. $1,200,000. (1906)*

OAK CITY Mun. Elec. Dept., Box 114, 84649, 801/846-2861, Wilburn Olsen, mgr.; no gen.; pur. 2 million kWh.*

PARAGONAH Mun. Light Dept., 84760, 801/477-3605, Scott Barton, mayor; 125 met.; no gen.; pur. 1 million kWh.

PAROWAN City Corp., 5 S. Main, 84761, 801/477-3331, M. DeLance Terry, head electrician; 748 met.; gen. 1,350 kW hydro, 4.7 million kWh; pur. 9.7 million kWh; rev. $371,116. (1929)

PAYSON City, 439 W. Utah Ave., 84651, 801/465-9226, 465-2580, Dennis C. Lewis, elec. supt., 2,710 met.; no gen.; pur. 6,000 kWh; rev. $1,800,000. (1902)

PRICE Mun. Corp., Box P, 84501, 801/637-2905, Art Lee Martines, Mayor, 3,462 met.; pur. 47,574,679 kWh; rev. $2,403,031.

PROVO City Power, 251 W. 800 N., 84601, 801/373-7170, Bud L. Bonnett, dir.; 20,479 met.; gen. 24,000 kW, 7,500 kW coal, 6,500 kW gas (steam turbine), 10,000 gas (eng.), 54,435 kWh; pur. 375,810,000 kWh; rev. $13,417,226. (1940)*

ST. GEORGE, City of, Util. Comm., 175 E. 200 North, 84770, 801/673-3593, Rudger M. McArthur, dir. of utils., 4,411 met.; gen. 7,508 kW; 6,868 kW eng., 640 kW hydro; pur. 141,250,618 kWh; rev. $3,195,846. (1942)*

SALEM City Power Dept., Box 338, 84653, 801/423-2770, Douglas R. Johnson, mgr.; 755 met.; no gen.; pur. 4,500,000 kWh; rev. $351,000. (1922)*

SPANISH FORK, City of, Mun. Power, 50 S. Main St., 84660, 801/798-3568, Robert Disbrow, supt., 3,522 met.; no gen.; pur. 46,556,257 kWh; rev. $2,581,096. (1919)*

SPRING CITY Corp., Box 189, 84662, 801/462-2244, Edward H. Sutliff, councilman, 320 met.; gen. 300 kW hydro; 1,300,000 kWh; pur. 2,100,000, rev. $290,000.

SPRINGVILLE Mun. Corp., 50 S. Main, 84663, 801/489-3263, J. Brent Haymond, mayor; 4,717 met.; gen. 920 kW hydro, 5,283,360 kWh; pur. 46,270,664 kWh; rev. $2,716,100. (1906)

VERMONT

BARTON, Village of, Box D, 05822, 802/525-6222, Orra White, supt.; 1,500 met.

BURLINGTON Elec. Light Dept., 585 Pine St., 05401, 802/658-0300, Robert C. Young, gen. mgr.; 15,198 met.; gen. 54,500 kW, 26,500 kW steam, 28,000 kW gas turbine, 61,122,400 kWh; pur. 322,284,430 kWh; rev. $18,782,782. (1905)*

ENOSBURG FALLS, Village of, Water & Light Dept., 15 Main St., 05450, 802/933-4443, Bernard C. Machia, supt., 1,069 met.; gen. 890 kW oil (eng.), 750 kW hydro, 4,151,550 kWh; pur. 11,606,750 kWh; rev. $906,592. (1928)*

HARDWICK Elec. Light Dept., N. Main St., Box 516, 05843, 802/472-5201, William Fee, supt.; 3,301 met.; gen. 800 kW hydro, 600 kW Diesel eng., 2,786,080 kWh; pur. 25,850,790 kWh; rev. $1,307,659.

HYDE PARK, Village of, Inc., Box 37, 05655, 802/888-2310, Gary Anderson, chrmn., bd. of trustees; 784 met.; no gen.; pur. 8,302,200 kWh; rev. $312,429. (1895)

JACKSONVILLE, Village of, 05342, 802/368-7010, Ernest Behrens, pres.; 486 met.; no gen.; pur. 4,194,890 kWh; rev. $267,671. (1922)

JOHNSON, Village of, Elec. Dept., Box 603, 05656, 802/635-2301, Kenneth Phelps, supt.; 650 met.; no gen.; pur. 16,758,300 kWh; rev. $648,076. (1894)

LUDLOW, Village of, Elec. Light Dept., Municipal Bldg., Box 289, 05149, 802/228-7766, Dean R. Brown Jr., mgr.; 2,056 met.; no gen.; pur. 26.5 million kWh; rev. $1,340,444. (1900)

LYNDONVILLE Mun. Elec. Plant, 24 Main St., 05851, 802/626-3366, Kenneth C. Mason, Mgr.; 3,400 met.; gen. 2,350 kW hydro, 4.2 million kWh; pur. 39.6 million kWh; rev. $1,693,095. (1896)*

MORRISVILLE Water & Light Dept., Box 325, 05661, 802/888-4961, James C. Fox, supt.; 2,581 met.; gen. 4,900 kW hydro., 12,635,100 kWh; pur. 24,106,600 kWh; rev. $2,551,181. (1895)*

NORTHFIELD, Village of, Elec. Dept., 26 S. Main St., 05663, 802/485-5411, Sailey Ennis, Supt.; 1,618 met.; no gen.; pur. 30,431,924 kWh; rev. $944,700. (1895)

ORLEANS Village Inc., Memorial Square, 05860, 802/754-8584, Slayton R. Marsh, supt.; 600 met.; no gen.; pur. 14,777,720 kWh; rev. $652,915. (1925)

READSBORO, Village of, Elec. Light Dept., 114 Main St., Box 236, 05350, 802/423-7593, Robert Berard, supt.; 280 met.; no gen.; pur. 1,879,200 kWh; rev. $98,691. (1936)

SPRINGFIELD, Town of, 05156, 802/885-2582, John Parker. (Bonding authority approved in 1982.)*

STOWE Village of, Elec. Dept., Main St., 05672, 802/253-7215, Richard V. de Grasse, gen. mgr.; [illegible],291 met.; no gen.; pur. 42,000,000 kWh; rev. $3,246,253. (1896)

SWANTON Village, 120 First St., Box 279, 05488, 802/868-3397, Orman E. Croft, village mgr.; 2,552 met.; gen. 4,600 kW hydro, 20,830,860 kWh; pur. 31,271,750 kWh; rev. $2,707,256. (1894)*

VIRGINIA

BEDFORD, City of, Drawer 807, 24523, 703/586-8963, Robert J. Schnabl, elec. util. dir.; 4,912 met.; gen. 950 kW hydro, 5.7 million kWh; pur. 139.7 million kWh; rev. $5,442,065. (1911)*

BLACKSTONE, Town of, 100 W. Elm St., 23824, 804/292-7251, Richard H. Lee, town mgr.; 1,787 met.; pur 26,000,000 kWh; rev. $1,790,480. (1927)*

BRISTOL Utils. 300 Lee St., 24203, 703/669-4112, Thomas E. Adams, gen. mgr.; 13,264 met.; no gen.; pur. 419,552,620 kWh; rev. $18,309,990. (TVA power distributor) (1945)

CULPEPER, Town of, Elec. Dept., 118 W. Davis St., 22701, 703/825-8165, J.A. Brookes, elec. supt.; 1,634 met.; gen. 6,616 kW, 1,600 kW oil turbine, 5,016 kW dual-fuel eng., 5,266,900 kWh; pur. 18,640,800; rev. $1,629,345. (1934)*

DANVILLE, City of, Elec. Dept., Box 3308, 24543, 804/799-5270, John R. Sweeney, dir.; 40,730 met.; gen. 10,200 kW hydro; 30,996,700 kWh; pur. 577,239,000 kWh; rev. $30,053,611. (1886)*

ELKTON, Town of, 173 W. Spotswood Ave., 22827, 703/298-1330, Gerald K. Monger, supt.; 730 met.; no gen.; pur. 13 million kWh; rev. $806,530. (1930s)*

FRANKLIN, City of, Elec. Dept., Box 179, 23851, 804/562-4111, Spurgeon R. Spivey, dir. of pub. util.; 3,738 met.; no gen.; pur. 78.9 million kWh; rev. $5,180,565. (1891)*

FRONT ROYAL, Town of, Box 1560, 22630, 703/635-3111, Walter M. Duncan, town mgr.; 4,932 met.; no gen.; pur. 85,987,000 kWh; rev. $4,178,745. (1894)*

HARRISONBURG Elec. Comm., 89 W. Bruce St., 22801, 703/434-5361, Kenneth L. Frantz, gen. mgr.; 8,835 met.; no gen.; pur. 269,556,000 kWh; rev. $15,409,320. (1957)*

IRON GATE Elec. Dept., 24448, E. E. Larman, mayor; 227 met.; pur. 2.1 million kWh; rev. $81,680.

MANASSAS, City of, 9027 Center St., Box 512, 22110, 703/361-4104, Clyde D. Wimmer, dir., pub. wks.; 5,515 met.; gen. 4,000 kW eng., 562,800 kWh; pur 108,461,100 kWh; rev. $6,401,972. (1912)*

MARTINSVILLE, City of, Elec. Dept., Box 1112, 24114, 703/638-3971 ext. 184, Robert I. Corekin, dir.; gen. 1,300 kW hydro, 4,705,900 kWh; pur. 172,504,000 kWh; rev. (1900)*

RADFORD Elec. Dept., 701-17th St., 24141, 703/639-4521, W.E. Willis, supt.; gen. 1,250 kW hydro, 7,000,000 kWh; pur. 172,000,000 kWh; rev. 9,000,000. (1930)*

RICHLANDS, Town of, 217 Railroad Ave., 24641, 703/964-2566, C. P. Mahaffey, town mgr.; 2,454 met.; no gen.; pur. 43+ million kWh; rev. $1,804,890.*

RICHMOND, City of, Pub. Utils., 600 E. Broad St., 23219, Daniel A. Lynch, dir., gen. 3,149 kW hydro; 16,338,300 kWh; pur. 62,038,986 kWh; rev. $5,759,743. (1910)

SALEM, City of, Elec. Dept., 736 W. Main St., Box 869, 24153, 703/375-3030, Reginald A. Oliver, supt.; 10,406 met.; no gen.; pur. 253,764,000 kWh; rev. $12,081,962. (1894)*

WAKEFIELD, Town of, Box 545, 23888, 804/899-2361, Stephen F. Owen, town mgr.; 540 met.; no gen.; pur. 7,368,000 kWh; rev. $460,000.

WASHINGTON

(Public Utility Districts, abbreviated PUD, are listed alphabetically by county names.)

BENTON COUNTY PUD No. 1, Box 6270, Kennewick, 99336, 509/582-2175, Robert W. Blodgett, mgr.; 31,819 met.; no gen.; pur. 1,242,696,456 kWh; rev. $35,690,135. (1934)*

BLAINE City Light, Box 490, 98230, 206/332-8311, Dale A. Ennor, city mgr.; 1,580 met.; no gen.; pur. 40,063,000 kWh; rev. $1,278,738. (1907)*

CASHMERE Light Dept., 101 Woodring St., 98815, 509/782-3513, David L. Simmer, supt.; 1,225 met.; no gen; pur. 41,832,000 kWh; rev. $636,065. (1908)

CENTRALIA City Light, 1100 N. Tower Ave., 98531, 206/736-7611, William C. Cummings, supt.; 7,316 met.; gen. 10,400 kW hydro, 78,932,500 kWh; pur. 178,916,780 kWh; rev. $5,181,922. (1895)*

CHELAN COUNTY PUD No. 1, 327 Wenatchee Ave., Box 1231, Wenatchee, 98801, 509/663-8121, Gerald L. Copp, mgr.; 25,600 met.; gen. 1,884,275 kW, 425 kW oil (diesel), 1,883,850 kW hydro, 9,520,515,100 kWh; pur. 207,338,000 kWh; rev. $18,606,889. (1936)*

CHENEY City Light, 609 Second St., 99004, 509/235-8431, Tom Richardson, dir.; 3,007 met.; no gen.; sales 89,784,000 kWh; rev. $1,476,188. (1931)

CHEWELAH, City of, Box 258, 99109, 509/935-8311, William D. Weaver, dir. pub works; 1,000 met; no gen.; pur. 20,764,022 kWh; rev. $662,336. (1929)

CLALLAM COUNTY PUD No. 1, Box 1117, Port Angeles, 98362, 206/452-9771, Phillip K. Jackson, mgr.; 18,333 met.; no gen.; pur. 356,552,358 kWh; rev. $14,320,788. (1944)*

CLARK COUNTY PUD No. 1, 1200 Fort Vancouver Way, Box C-005, Vancouver, 98668, 206/699-3000, W. Bruce Bosch, gen. mgr.; 84,096 met.; no gen.; pur. 2,505,238,568 kWh; rev. $76,220,401. (1938)*

COULEE DAM, City of, Light Dept., 300 Lincoln, Box 156, 99116, 509/633-1091, Donald E. Thoren, supt.; 655 met.; no gen.; pur. 20,928,663 kWh; rev. $292,440. (1959)

COWLITZ COUNTY PUD No. 1, 960 Commerce Ave., Longview, 98632, 206/423-2210, Robert L. McKinney, gen. mgr.; 36,512 met.; gen. 70,000 kW hydro, 91,274,000 kWh; pur. 3,748,707,000 kWh; rev. $75,412,007. (1936)*

DOUGLAS COUNTY PUD No. 1, 1151 Valley Mall Pkwy., East Wenatchee, 98801, 509/884-7191, Fred W. Lieberg, mgr.; 10,750 met.; gen. 774,300 kW hydro, 4,155,281,000 kWh; pur. 893,288,000 kWh; rev. $25,930,194. (1945)*

EATONVILLE Power & Light Co., Box 309, 98328, 206/832-3361, Joe Sander, supt.; 500 met.; no gen.; pur. 16,171,330 kWh; rev. $332,798. (1913)

ELLENSBURG, City of, 420 N. Pearl St., 98926, 509/962-9863, Doug Williams, city mgr., 5,019 met.; no gen.; pur. 145,887,000 kWh; rev. $4,770,235. (1891)*

FERRY COUNTY PUD No. 1, 686 S. Clark Ave., Box 324, Republic, 99166, 509/775-3325, Kenneth R. Coyle, mgr.; 2,173 met.; no gen.; pur. 56,739,540 kWh; rev. $2,101,983. (1936)

FIRCREST, Town of, 115 Ramsdell St., Tacoma, 98466, 206/564-8900, James R. Valentine, town admn.; 2,155 met.; no gen.; pur. 41,624,802 kWh; rev. $1,091,932. (1925)

FRANKLIN COUNTY PUD No. 1, Box 2407, Pasco, 99302, 509/547-5591, Kenneth R. Engstrom, mgr.; 15,425 met.; no gen.; pur. 539,684,520 kWh; rev. $16,103,430. (1934)*

GRANT COUNTY PUD No. 2, Box 878, Ephrata, 98823, 509/754-3541, John L. McMahan, mgr.; 27,986 met.; gen. 1,619,750 kW hydro, 10,197,314 kWh; pur. 94,487,613 kWh; rev. $25,250,903. (1942)*

GRAYS HARBOR COUNTY PUD No. 1, Box 480, Aberdeen, 98520, 206/532-4220, Charles R. Fricke, gen. mgr.; 34,030 met.; gen. 53,200 kW coal, 258,364,920 kWh; pur. 1,114,741,103 kWh; rev. $41,015,082. (1938)*

JEFFERSON COUNTY PUD No. 1, Jefferson County Courthouse, Port Townsend 18368, 206/385-5800, J. Richard Kint., dist. mgr. (Jefferson County PUD No. 1 has preliminary permits for investigating two hydroelectric sites. It is currently studying these sites in conjunction with Tacoma (Wash.) Department of Public Utilities, with whom there is a joint agreement for ownership, construction and operation. Voter approval will be required to establish ownership.)*

KITTITAS COUNTY PUD No. 1, 1400 E. Vantage Hwy., Ellensburg, 98926, 509/925-3164, Floyd M. Weir, mgr.; 1,813 met.; no gen.; pur. 40,335,392 kWh; rev. $1,290,112. (1936)*

KLICKITAT COUNTY PUD No. 1, 1313 S. Columbus, Goldendale, 98620, 509/773-5891, Alexander Thomson, gen. mgr.; 7,928 met.; no gen.; pur. 197,278,043 kWh; rev. $7,186,835. (1938)*

LEWIS COUNTY PUD No. 1, 321 N.W. Pacific Ave., Box 330, Chehalis, 98532, 206/748-9261, Gary H. Kalich, mgr.; 20,442 met.; gen. 700 kW hydro; 337,600 kWh; pur. 592,912,367 kWh; rev. $19,915,190. (1936)*

MASON COUNTY PUD No. 1, Rte. 5, Box 555, Shelton, 98584, 206/877-5249, John P. Robertson, mgr.; 3,623 met.; no gen.; pur. 53,975,850 kWh; rev. $2,007,655. (1936)*

MASON COUNTY PUD No. 3, 303 W. Cota, Box 490, Shelton, 98584, 206/426-8255, Harvey H. Warnaca, pres., bd of comm.; 21,373 met.; no gen.; pur. 364,676,851 kWh; rev. $12,702,233. (1939)*

McCLEARY Light and Power, Box 360, 98557, 206/495-3863, Ron Pittman, mayor; 843 met.; no gen.; pur. 34,815,725 kWh; rev. $1,147,996. (1948)*

MILTON, Town of, Box "D," 98354, 206/922-8733, Robert J. Smart, supt. of pub. works; 1,500 met.; no gen.; pur. 28.9 million kWh; rev. $450,217. (1947)

OKANOGAN COUNTY PUD No.

APPA member

SAN ANTONIO City Pub. Service
Box 1771, 78296, — Address, zip code
512/227-3211, — Telephone
J.K. Spruce, gen. mgr.; 383,615 — Title
Number of electric meters served — met.; gen. 836,000 kW coal, 2,400,000 — Installed generating capacity
Kilowatt-hours generated annually — kW gas; 8,912,205,900 kWh; pur. none; — Purchases (or sales)
Gross annual electric revenue — rev. $534,751,158. (1942)* 4 — Year electric system established
Year in which data updated (4 = 1984, 3 = 1983, etc.)

WASHINGTON
(continued)

1, Box 912, Okanogan, 98840, 509/422-3310, Harlan Warner, mgr.; 17,181 met.; no gen.; pur. 472,281,658 kWh; rev. $10,071,451. (1945)*

PACIFIC COUNTY PUD No. 2, 405 Duryea St., Box 472, Raymond, 98577, 206/942-2411, John E. Dunsmoor, mgr.; 13,569 met.; no gen.; pur. 236,582,861 kWh; rev. $7,014,003. (1940)

PEND OREILLE COUNTY PUD No. 1, Box 190, Newport, 99156, 509/447-3137, Jim McCampbell, mgr.; 3,512 met.; gen. 60,000 kW hydro, 506,113,000 kWh; pur. 8,363,000 kWh; rev. $2,345,966. (1948)*

PORT ANGELES City Light, Box 1150, 98362, 206/457-0411, Jay Bowen, 8,430 met.; no gen.; pur. 634,951,762 kWh; rev. $16,152,608. (1893)

RICHLAND, City of, Box 190, 99352, 509/943-9161 ext. 208, J. Keith Sedore, dir.; 13,700 met.; no gen.; pur. 502,371,c54 kWh; rev. $16,714,658. (1958)*

RUSTON Elec. Util., 5117 N. Winnifred St., Ruston (Tacoma), 98407, 206/759-3544, Hubert Glenn Roberts, supt.; 335 met.; no gen.; pur. 4,914,000 kWh; rev. $81,955, (1928)

SEATTLE City Light, 1015 Third Ave., 98104, 206/625-3000, Randall W. Hardy, supt.; 294,579 met.; gen. 1,413,174 kW, 1,276,790 kW hydro, 106,384 kW coal, 30,000 kW oil (steam turbine), 6,816,758,000 kWh; pur. 1,453,144,000 kWh; rev. $164,609,827. (1902)*

SKAMANIA COUNTY PUD No. 1, Box 500, Carson, 98610, 509/427-5126, William F. Yee, mgr.; 3,905 met.; no gen.; pur. 100,634,477 kWh; rev. $3,254,834. (1938)*

SNOHOMISH COUNTY PUD No. 1, 2320 California Ave., Box 1107, Everett, 98206, 206/258-8211, Edward K. Aghjayan, mgr.; 154,146 met.; no gen.; pur. 4,460,750,375 kWh; rev. $142,702,917. (1949)*

STEILACOOM, Town of, 1715 Lafayette St., 98388, 206/582-1900, Jim Richards, util. supt.; 2,011 met.; no gen.; pur. 39,074,595 kWh; rev. $773,802. (1914)

SUMAS, City of, Cherry St., Box 9, 98295, 206/988-5711, Lawrence Silvis, util. supt.; 359 met.; no gen.; sales 7,027,729 kWh; rev. $257,981. (est. 1934)

TACOMA, City of, Dept. of Pub. Utils., Light Div., Box 11007, 3628 S. 35th St., 98411, 206/383-2471, Paul J. Nolan, dir. of utils.; 109,238 met.; gen. 812,200 kW; 700,200 kW hydro, 112,000 kW coal; 2,969,213,000 kWh; pur. 2,116,058,391 kWh; rev. $76,363,762. (1893)*

VERA WATER AND POWER DISTRICT No. 15, 601 N. Evergreen Rd., Spokane, 99216, 509/924-3800, Joseph W. Custer, gen. mgr.; 5,303 met.; no gen.; pur. 136,220,140 kWh; rev. $3,862,198. (1938)*

WAHKIAKUM COUNTY PUD No. 1, Box 248, Cathlamet, 98612, 206/795-3305; Charles W. Weber, mgr.; 1,918 met.; no gen.; pur. 33,821,737 kWh; rev. $1,370,483. (1940)*

WATERVILLE, Town of, Box 580, 98858, 509/745-8871, Carl E. Koenig, supt.; 516 met.; no gen.; pur. 13,461,000 kWh. (1902)

WHATCOM COUNTY PUD, 215 Mason Bldg., Bellingham, 98225, 206/384-1410, Frank Spisak, mgr.; 3 met. (Mobil Oil Co. and two water-treatment plants); no gen.; pur. 106,228,000 kWh; rev. $1,101,198. (1954)

WEST VIRGINIA

NEW MARTINSVILLE Mun. Utils., 201 Main St., 26155, 304/455-3980, W.L. Drennen, supt.; 1,922 met.; no gen.; pur. 28,472,000 kWh; rev. $1,423,839. (1929)*

PHILIPPI, City of,Electric, 108 N. Main St., 26416, 304/457-3700, Joseph P. Mattaliano, city mgr.; 1,663 met.; no gen.; pur. 27,158,400 kWh; rev. $1,373,046. (1932)*

WISCONSIN

ALGOMA Util. Comm., 520 Parkway Ave., 54201, 414/487-5556, Roland C. LeCloux, supt.; 1,780 met.; no gen.; pur. 28,922,000 kWh; rev. $1,553,056. (1903)*

ARCADIA Elec. Util., 115 S. Jackson St., 54612, 608/323-7347, Ronald L. Darbo, supt.; 1,160 met.; pur. 26,301,530 kWh; rev. $1,050,899. (1903)*

ARGYLE Mun. Elec. & Water Dept., 53504, 608/543-3335, Rick Phillipson, supt.; 410 met.; gen. 1,540 kW oil-fired eng.; 50 kW hydro; 216,360 kWh; pur. 4,785,800 kWh.

BANGOR Mun. Util., Box 68, 54614, 608/486-2151, Wesley Kjome, mgr.; 1,247 met.; no gen.; sales 25,674,000 kWh; rev. $1,159,085

BARRON Light & Water Dept., 1303 E. Division Ave., 54812, 715/537-3855, David Hoff, util. supt.; 1,426 met.; gen. 4,412 kW, 4,340 kW oil-fired eng., 72 kW hydro, 364,452 kWh; pur. 27,818,000 kWh; rev. $1,265,195. (1908)*

BELMONT Mun. Light & Water Util., 222 Mound Ave., 53510, 608/762-5142, Tom Buss, supt.; 408 met.; no gen.; sales 3,174,000 kWh; rev. $138,767. (1900)

BENTON, Village of, Box 91, 53803, 608/759-3721, Melvin Kreul, supt.; 426 met.; pur. 4,117,355 kWh; rev. $226,542.

BLACK EARTH Elec. Util., 1210 Mills St., 53515, 608/767-2563, Dwayne Garfoot, dir of pub wks.; 871 met.; no gen.; pur. 10,510,200 kWh, rev. $604,376.

BLACK RIVER FALLS Mun. Utils., 119 N. Water St., 54615, 715/284-9463, Delmar D. Dahl, util. adm.; 2,166 met.; gen. 4,140 kW, 3,210 kW oil-fired, 930 kW hydro, 3.3 million kWh; pur. 32.3 million kWh; rev. $1,184,373. (1904)*

BLOOMER Elec. Util., 1503 Main St., 54724, 715/568-3032, Charles H. Cole, mgr., 1,538 met.; no gen.; pur. 31,214,400 kWh; rev. $1,244,698. (1908)

BOSCOBEL Utils., 240 Commercial Row, 53805, 608/375-5429, Bruce Folbrecht, mgr.; 1,547 met., no gen.; pur. 23,004,000 kWh; rev. $1,123,169. (1898)*

BRODHEAD Water & Lighting Comm., 1108 11th St., 53520, 608/897-2505, Carrol Sheafor, supt.; 1,502 met.; no gen.; pur. 22,062,644 kWh; rev. $1,021,525. (1913)

CADOTT Light & Water Util., Village Hall, Box 37, 54727, 715/289-4282, Leona Hart, clerk; 595 met.; no gen.; pur. 9,268,800 kWh; rev. $408,247. (1901)

CASHTON Mun. Light & Water, 709 Main St., 54619, 608/386-5160, John Hauser, supt., 650 met.; gen. 750 kW oil-fired eng., 1,163 kW dual-fuel eng.; 5,000 kWh; pur. 4.5 million kWh; rev. & 81,000. (1909) 2

CEDARBURG Light & Water Comm., N30 W5926 Lincoln Blvd., Box 82, 53012, 414/377-1280, Glenn W. Frank, mgr.; 4,303 met.; no gen.; pur. 77,817,600 kWh; rev. $4,008,565. (1914)* 3

CENTURIA Mun. Elec. Util.,305 Wis. Ave., 54824, 715/646-2300, Glenn Melin, comm. chmn.; 387 met.; no gen.; pur. 4,543,800kWh; rev. $215,041. (1946) 4

CLINTONVILLE Water & Elec. Util., 64 E. Twelfth St., Box 359, 54929, 715/823-3518, John H. Schroeder, supt.; 3,412 met.; no gen.; pur. 40,695,633 kWh; rev. $1,654,445. 2

COLUMBUS Water & Light Dept., 361 N. Water St., 53925, 414/623-3100, Grant E. Allar, supt.; 1,944 met.; no gen.; pur. 35,151,200 kWh; rev. $1,574,461. (1899)* 3

CORNELL Mun. Elec. Util., 222 Main St., Box 796, 54732, 715/239-6589, Ed Jenneman, utils. supv.; 753 met.; no gen.; pur. 9,448,000 kWh; rev. $431,547. (1937) 3

CUBA CITY Mun. Elec. & Water Plant, 108 N. Main, 53807, 608/744-2152, Melvin Domres, Dir. of Pub. Wks.; no gen.; pur. 12,892,800 kWh; rev. $505,385. (1921)* 2

CUMBERLAND Mun. Util., 1265 Second Ave., Box 726, 54829, 715/822-8298 or 822-2595, Charles Christensen, gen. mgr.; 1,104 met.; gen. 10,914 kW, 8,650 kW oil-fired; pur. 21,695,197 kWh; rev. $1,337,775. (1898)* 3

DEERFIELD Elec. & Water Util., 113 N. Main, 53531, 608/764-5414, W. C. Halverson, comm. pres.; 613 met.; no gen.; pur. 80,809,000 kWh; rev. $459,703. (1915)* 3

EAGLE RIVER Light & Water Dept., Box 218, 54521, 715/479-8121, Lee McFaul, mgr.; 1,204 met.; no gen.; pur. 20,242,315 kWh; rev. $1,022,198. (1898)* 3

ELKHORN Light & Water Comm., 23 W. Walworth Ave., 53121, 414/723-2910, Anthony F. Biba, supt.; 2,409 met.; no gen.; pur. 51,753,355 kWh; rev. $2,596,352. (1898)* 3

ELROY Light & Water Util., 102 Liberty St., Box 929, 53929, 608/462-8245, Royce Lockner, util. mgr., 929 met.; gen. 9,600 kWh dual-fuel eng.; pur. 12,264,655 kWh; rev. $442,797. (1899) 2

EVANSVILLE Mun. Elec. Util., 31 S. Madison St., 53536, 608/882-5214, Verne Gallman, supt., 2,142 met.; no gen.; pur. 37,872,000 kWh; rev. $1,840,914. (1902)

FENNIMORE Elec. & Water Plant, 860 Lincoln Ave., 53809, 608/822-6119 or 6501, Charles J. Leuck, dir. pub. wks.; 1,186 met.; gen. 2,630 kW oil-fired eng., 108,800 kWh; pur. 19,633,048 kWh; rev. $890,645. (1904)* 4

FLORENCE Water & Light Comm., Box 67, 54121, 715/528-3330, Robert Friberg, supt.; 748 met.; no gen.; sales 7,151,000 kWh; rev. $336,688. (1898)* 2

FOOTVILLE Elec. Comm., Center St., Box 187, 53537, 608/876-6581, Dale Kitelinger, supt.; 350 met.; no gen.; pur. 3,495,200 kWh; rev. $117,915. (1920) 2

GRESHAM Mun. Util., Main St., Box 157, 54128, 715/787-3244, Alvin Christ, supt.; 836 met.; gen. hydro, 3,544,060 kWh; pur. 6,064,200 kWh; rev. $367,465. (1928) 3

HARTFORD Elec. Util., Box 31, 53027, 414/673-4000, L. M. Darin, dir.; 2,850 met.; no gen.; pur. 56,854,600 kWh; rev. $2,473,136. (1912)* 2

HAZEL GREEN Elec. Util., Box 367, 1610 Fairplay, 53811, Box 367, 608/854-2953, Herman Richardson, dir. pub. wks.; 518 met.; no gen.; pur. 6,182,400 kWh; rev. $319,098. (1908) 3

HUSTISFORD Elec. Util., 53034, 414/349-3650, Steve Thompson, supt.; 750 met.; no gen.; pur. 6 million kWh. 0

JEFFERSON Water & Elec. Dept., 121 W. Racine St., 53549, 414/674-3313, H. R. Waraczynski, mgr.; 3,180 met.; no gen.; pur. 83,407,752 kWh; rev. $3,668,590. (1901)* 3

JUNEAU Util. Comm., Box 163, 53039, 414/386-3321, Michael A. Frey, dir. pub. wks.; 782 met.; no gen.; pur. 22,368,000 kWh; rev. $1,032,090. (1914) 3

KAUKAUNA Elec. & Water Dept., 777 Island St., 54130, 414/766-5721, Ernest J. Mullen, gen. mgr.; 8,510 met.: gen. 6,000 kW oil-fired, 20,000 kW gas (combus. turbine), 15,000 kW hydro,105,455,000 kWh; pur. 341,963,000, kWh; rev. $14,941,677. (1912)* 3

KIEL Utils., City Hall, 621 Sixth St., 53042, 414/894-2909, Ralph H. Menne, supt., 1,542 met.; no gen.; pur. 32,304,600 kWh; rev. $1,518,688. (1914)* 3

LA FARGE Mun. Elec. Co., Box 838, 54639, 608/625-2333, Richard Herken, mgr.; 631 met.; no gen.; pur. 4,497,708 kWh; rev. $233,534. 2

LAKE MILLS Light & Water Dept., 101 Church St., 53551, 414/648-2344, Thomas George Popp Jr., city mgr.; 3,203 met.; no gen.;. pur. 42,529,390 kWh; rev. $1,970,858. (1911)* 3

LODI Mun. Light & Water, City Hall, 113 S. Main St., 53555, 608/592-3246, Rodney Maier, supt.; 1,002 met.; no gen.; pur. 13,609,600 kWh; rev. $662,527. (1894) 4

MANITOWOC Pub. Utils., 1303 S. Eighth St., 54220, 414/683-4640, Edmund J. Garber, gen. mgr.; 14,934 met.; gen. 69,000 kW coal (steam turb.), 86,685,000 kWh; pur. 236,763,0000 kWh; rev. $14,468,897. (1914)* 4

MARSHFIELD Elec.& Water Dept., 2000 S. Roddis Ave.,Box 670, 54449, 715/387-1195, Robert R. Pawelski, util. mgr.; 10,082 met.; gen. 39,000 kW, 29,000 kW steam turbine (coal), 10,000 kW gas/oil steam turbine 79,862,800 kWh; pur. 161,607,000 kWh; rev. $11,049,038 (1904)* 4

MAZOMANIE Electric, 133 Crescent St., 53560, 608/795-2217, Dean G. Sanftleben, village electrician, 600 met.; no gen.; pur. 7,101,600 kWh; rev. $310,355. 2

MEDFORD Elec. Util., 330 S. Whelen Ave., 54451, 715/748-3211, William J. Werner, mgr.; 2,449 met; no gen.; pur. 63,336,188 kWh; rev. $2,661,051. (1944)* 4

MENASHA Elec. & Water Utils., Box 340, 54952, 414/729-5180, James W. Austin, gen. mgr.; 6,534 met.; gen. 29,180 kW coal, 47,608,000 kWh; pur. 75,528,000 kWh; rev. $6,104,418. (1905)* 3

MERRILLAN Mun. Elec. Util., 101 S. Main St., Box 70, 54754, 715/333-2332, Ted Meinholdt, util. supt.; 240 met.; gen. 799 kW, 724 kW oil-fired eng., 75 kW hydro, 331,100 kWh; pur. 2,633,797 kWh; rev. $142,544. (1904) 3

MT. HOREB Elec. Util., 138 E. Main St., 53572, 608/437-3084, Elwin K. Bendickson, mgr.; 1,993 met.; no gen.; pur. 30,571,200 kWh; rev. $1,381,408. (1939) 3

MUSCODA Light & Water Comm., 109 N. Second St., 53573, 608/739-3390, Joseph H. Drone,. supt.; 843 met.; no gen.; pur. 12.3 million kWh; rev. $483,600. (1907)* 0

NEW GLARUS Mun. Light & Water Wks., 313 2nd St., 53574, 608/527-2913, Orville R Jorenby, supt.; 852 met.; no gen.; pur. 14,125,000 kWh; rev. $633,320. (1902) 4

NEW HOLSTEIN Pub. Utils., 2110 Washington St., 53061, 414/898-5776, Ernest R. Dyer Sr., supt. 1,927 met.; no gen.; sales 43,352,000 kWh; rev. $1,890,451. (1912)* 2

NEW LISBON Mun. Light & Water Dept., 218 E. Bridge St., 53950, 608/562-3103, Fred J. Lorenz, supt., 695 met.; gen. 4,439 kW dual-fuel, 314,000 kWh; pur. 10,338,000 kWh; rev. $10,077,000. 2

NEW LONDON Utils., 400 E. North Water St., Box 304, 54961, 414/982-2650, Richard Maas, mgr.; 2,745 met.; no gen.; pur. 123,116,983 kWh; rev. $5,699,940. (1903)* 3

NEW RICHMOND Elec., 156 E. First St., 54017, 715/246-4167, Donald E. Preble, mgr., 2,117 met.; no gen.; pur. 39,659,780 kWh; rev. $1,593,945. (1890)* 3

OCONOMOWOC, City of, Utils., 174 E. Wisconsin Ave., 53066, 414/569-2198, A. Edwin McDivitt, dir. of utils.; 5,312 met.; no gen.; pur. 108,383,173 kWh; rev. $5,000,770. (1900)* 3

OCONTO FALLS Water & Light Comm., 104 S. Franklin, 54154, 414/846-3575, Gary Haltaufoerheide,; 1,189 met.; no gen.; pur. 16,547,272 kWh; rev. $871,467. (1933)* 4

PARDEEVILLE Elec., 124 Lake St., 53954, 608/429-3054, Larry Brown, dir. pub. wks.; 935 met.; gen. 50 kW hydro, 78,490 kWh, pur. 12,734,400 kWh; rev. $470,534. (1945) 4

PLYMOUTH Utils. Comm., 12 S. Milwaukee St., Box 267, 53073, 414/893-1471, John T. MacKinnon, mgr., 5,149 met.; no gen.; pur. 112,728,000 kWh; rev. $5,155,011. (1895) 4

PRAIRIE DU SAC Elec. Util., 560 Park Ave., 53578, 608/643-2421, Ben Ward, supt.; 1,003 met.; no gen.; pur. 13,221,000 kWh; rev. $582,450. (1918) 3

PRINCETON Elec. & Water, 438 W. Main St., 54968, 414/295-6612, Duane G. Norem, mgr.; 874 met.; no gen.; pur. 10,409,200 kWh; rev. $516,513. (1902) 4

REEDSBURG Util. comm., 344 S. Willow, 53959, 608/524-4381, Robert D. Utley, supt.; 2,472 met.; no gen.; pur. 69.6 million kWh; rev. $2,547,471. (1894) 1

RICE LAKE Elec. Util., 320 W. Coleman St., 54868, 715/234-7004, John E. Brandt, supt.; 3,800 met.; no gen.; pur. 84,093,380 kWh; rev. $2,964,000. (1918)

RICHLAND CENTER Mun. Utils., Box 29, 53581, 608/647-3844, Richard J. Steiner, util. admr.; 2,759 met.; gen. 11,500 kW coal (steam turbine), 22,670,600 kWh; pur. 40,250,000 kWh; rev. $3,483,472. (1904)*

RIVER FALLS Mun. Util., 115 E. Elm St., 54022, 715/425-5313, Elmer K. Thon Jr., util. adm.; 3,216 met.; gen. 13,344 kW, 4,526 kW comb. cycle (oil), 8,530 kW comb. cycle (dual-fuel), 228 KW hydro; 2,167,850 kWh; pur. 60,057,801 kWh; rev. $2,716,004. (1900)*

SAUK CITY Elec. & Water Dept., 806 Water St., 53583, 608/643-8336, or 643-3932, Donald Moen, util., supt.; 1,261 met.; no gen.; pur. 22,789,400 kWh; rev. $1,079,709. (1909)

SHAWANO Mun. Utils., 122 N. Sawyer St., 54166, 715/526-3131, Lloyd (Lee) A. Ebert, gen. mgr.; 4,088 met.; no gen.; pur. 134,725,028 kWh; rev. $6,665,912. (1900)*

SHEBOYGAN FALLS Utils., 511 Adams St., 53085, 414/467-6446, Robert Selchert, supt., 2,767 met.; no gen.; pur. 101,160,000 kWh; rev. $4,303,102. (1916)

SHULLSBURG Elec. Util., 112 S. Gratiot St., Box 580, 53586, 608/965-4901, Ronald Schardt, electrn; 700 met.; no gen.; pur. 6,446,810 kWh; rev. $348,637. (1937)

SLINGER Utils., 220 Slinger Rd., 53086, 414/644-5265, Dean A. Otte, village clerk; 751 met.; no gen.; pur. 11,764,800 kWh; rev. $581,034. (1911)*

SPOONER Mun. Util, 618 Smoth St., 54801, 715/635-8769, Melvin E. Anderson, supt.; 1,100 met.; no gen.; pur. 20,013,600 kWh; rev. $865,065. (1905)

STOUGHTON Elec. Util., 211 Water St., Box 383, 53589, 608/873-3379, Robert P. Kardasz, dir. of pub. wks.; 5,279 met.; no gen.; pur. 79,033,000 kWh; rev. $3,783,838. (1890)

STRATFORD Mun. Water & Elec. Util., 54484, 715/687-4118, W.F. Lange, supt.; 657 met.; no gen.; sales 7,344,000 kWh; rev. $447,151. (1920)

STURGEON BAY Utils., 230 E. Vine St., Box 249, 54235, 414/743-5542, William Baudhuin, supt.; 6,134 met.; no gen.; pur. 109,152,000 kWh; rev. $5,820,218. (1904)*

SUN PRAIRIE Elec. Util., 125 W. Main St., 53590, 608/837-5500, George F. Straus, supt.; 5,135 met.; no gen.; pur. 78,000,000 kWh; rev. $3,673,723. (1910)*

TREMPEALEAU Mun. Elec. Dept., 50 E. Third St., 54661, 608/534-6434; Duane Freuchte, chief officer; 678 met.; no gen.; pur. 6,760,800 kWh; rev. $273,376. (1915)

TWO RIVERS Water & Light Dept., 1415 Lake St., 54241, 414/793-1191, ex. 41, William C. Pappathopoulos, dir. util.; 5,570 met.; no gen.; pur. 69,207,600 kWh; rev. $3,539,545. (1901)*

VIOLA Mun. Elec. Util., Box 38, 54664, 608/627-1829; Kirby Hamilton, mgr.; 474 met.; gen. 1,076 kW oil-fired eng.; 11,400 kWh; pur. 3,786,042 kWh; rev. $162,290.

WATERLOO Water & Light, 122 S. Monroe St., 53594, 414/478-2260, John Foley, supt.; 1,406 met.; no gen.; pur. 33,413,761 kWh; rev. $1,552,111. (1908)*

WAUNAKEE Water & Light, 205 Klein Dr.,53597, 608/849-4111, Edward L. Brockner, supt.; 1,648 met.; no gen.; pur. 29,220,000 kWh; rev. $1,348,880. (1915)*

WAUPUN Pub. Utils., 220 N. Forest St., 53963, 414/324-3556, Albert F. Leu, mgr.; 3,220 met.; no gen.; pur. 55,064,800 kWh; rev. $2,456,277. (1894)*

WESTBY Elec. & Water Util., 104 First St., 54667, 608/634-3416, Dean Warren, supvr.; 867 met.; no gen.; pur. 14,583,900 kWh; rev. $605,310. (1915)*

WHITEHALL Mun. Elec. Util., 1631 Main St., 54773, 715/538-4353, Larry H. Bocock, elec. supt.; 833 met.; no gen.; pur. 15,028,800 kWh; rev. $613,497. (1940)*

WISCONSIN DELLS Elec. Util., 300 LaCrosse St., 53965, 608/253-2542, Kenneth D. Weber, dir. pub. wks.; 1,497 met.; no gen.; pur. 29,407,200 kWh; rev. $1,396,718. (1894)

WISCONSIN RAPIDS Water Wks. & Lgt. Comm., 221 Sixteenth St., S., Box 399, 54494, 715/423-6300, Robert F. Dickinson, gen. mgr.; 10,208 met.; no gen.; pur. 162,393,600 kWh; rev. $8,120,857. (1890)*

WONEWOC Elec. Util., Box 303, City Hall, 53968, 608/464-3114, Peter A. Carr; 576 met.; no gen.; pur. 5,822,400 kWh; rev. $221,419.

WYOMING

BASIN Mun. Light & Water Plant, Box 599, 82410, 307/568-3331, Dick Sanders, supt.; 680 met.; no gen. (1920s)

CODY Mun. Elec. Dist. System, 1338 Rumsey Ave., 82414, 307/527-7513, Neal T. Olson, Supt.; elec. dept., 2,700 met.; no gen.; pur. 35.2 million kWh; rev. $2,873,922. (1935)

DEAVER Utils., 82421, 307/664-2350, Hyram Beaver, mayor; no gen.

FORT LARAMIE, Town of, Box 177, 82212, 307/837-2711, Joyce Gilchriest; 160 met.; no gen.; pur. 1,207,800 kWh; rev. $101,597.

GILLETTE Mun. Elec. Util., Box 3003, 82716, 307/686-5265, Glen W. Taylor, dir. pub. wks.; 6,982 met.; no gen.; pur. 133,733,000 kWh; rev. $8,242,622. (1915)*

GUERNSEY Elec. Dept., 82214, 307/836-2522, Charles M. (Pete) Green, town supt.; 607 met.; no gen.; pur. 6,000,000 kWh; rev. $1,207,065

LINGLE, Town of, 82223, 307/837-2422, Harry Bremer, supt.; 276 met.; no gen.; pur. 2,629,968 kWh; rev. $24,861.

LUSK Light & Power Dept., Box 385, 82225, 307/334-3612, Alvin G. Titchener, supt. pub. wks.; 1,300 met.; no gen.; pur. 277,108 kWh; rev. $390,475. (1919)

PINE BLUFFS, Town of, Box 378, 82082, 307/245-3746, Ronald Spier, supt.; 773 met.; no gen.; rev. $310,853. (approx. 1910)

POWELL, City of, 270 N. Clark St., Box 1008, 82435, 307/754-5106, Jack Young, supt.; 2,400 met.; no gen.; sales 36 million kWh; rev. $1.5 million. (1921)*

TORRINGTON, Town of, 2042 E. A St., 82240, 307/532-2422, Lawrence Mitchell, supt.; 3,257 met.; no gen.; pur. 48,123,473 kWh; rev. $1,624,108. (1914)*

WHEATLAND, Town of, 600-9th St., 82201, 307/322-2962, J. R. Dunham, mayor; 2,200 met.; no gen.; pur. 31,321,000 kWh; rev. $1,356,890. (1936)

AMERICAN SAMOA

AMERICAN SAMOA POWER AUTHORITY, Pago Pago, American Samoa, 96799, 633-5251, James A. Carriere, executive director, 4,700 met.; gen. 24,000 kW eng., 60 million kWh; pur. none; rev. $4,200,000.*

CANAL ZONE

PANAMA CANAL Commission, APO Miami 34011, phone 52-3421, Frank A. Lee, chief, elec. div.; 4,820 met.; gen. 162,000 kW, 55,500 kW oil, 60,000 kW gas turbine, 46,500 kW hydro, 553 million kWh; pur. 12 million kWh; rev. $26,612,000. (1914)

GUAM

GUAM POWER AUTHORITY, Box 2977, Agana, Guam, 96910-2977, 472-6801, Frank G. Blaz, gen. mgr.; 24,387 met.; gen. 314,000 kW, 282,000 kW oil, 32,000 kW oil-fired engine, 1,013.9 million kWh; pur. none; rev. $49,897,652. (1968)*

PUERTO RICO

PUERTO RICO ELECTRIC POWER AUTHORITY, Box 4267, San Juan, P.R., 00936, 809/721-4232, Wilfredo Marcial Gonzales, exec. dir.; 1,026,318 met.; gen. 3,080,000 kW oil (steam turbine), 434,000 kW oil (combus. turbine), 592,000 kW oil (comb. cycle), 2,500 kW oil (eng.), 98,300 kW hydro; 11,805,400,000 kWh; sales 9,729,900,000 kWh; rev. $1,035,627,000. (1941)*

VIRGIN ISLANDS

VIRGIN ISLANDS WATER AND POWER AUTHORITY, Box 1450, Charlotte Amalie, St. Thomas, U.S. Virgin Islands, 00801, 809/774-3552, Raymond L. George, exec. dir.; 38,040 met.; gen. 202,200 kW, 86,000 kW oil, 16,200 kW oil-fired, 100,000 kW-gas turbine, 443.9 million kWh; pur. 348 million kWh; rev. $53,042,918. (1965)*

JOINT-ACTION AGENCIES

Alabama

ALABAMA MUNICIPAL ELECTRIC AUTHORITY, Drawer 5220, Montgomery, 36103, 205/262-1126; Sewell St. John Jr., Foley, chmn.; Robert W. Claussen, gen. mgr.; 12 members: Alexander City, Dothan, Fairhope, Foley, Lafayette, Lanett, Luverne, Opelika, Piedmont, Sylacauga, Troy, Tuskegee. (estbl. 1981)*

Arizona

ARIZONA POWER POOLING ASSOCIATION, Box 670, Benson, Ariz. 85602; 602/723-3700; A.J. Faul, Coolidge, pres.; 3 members: Mesa, Electrical District No. 2 of Pinal County, Arizona Electric Power Cooperative.*

California

CENTRAL CALIFORNIA POWER AGENCY, 6701 4th Ave., Sacramento, Cal. 95817; 916/732-6200; Dallas Raasch, Sacramento, chmn.; 4 members: Sacramento Municipal Utility District, Modesto Irrigation District, Santa Clara, Redding. (estbl. 1981)

M-S-R PUBLIC POWER AGENCY, Box 4060, Modesto, Cal. 95352; 209/578-1212; Archer F. Pugh, Redding, chmn.; Charles S. Viss, Modesto Irrigation District, gen. mgr.; 136 MW of San Juan Generating Station Unit 4, dry steam production at Northern California exploratory drilling site; participation in Mead-Phoenix transmission studies; 3 members: Modesto Irrigation District, Santa Clara, Redding.

NORTHERN CALIFORNIA POWER AGENCY, 180 Cirby Way, Roseville, Cal. 95678, 916/781-3636; Hays Hickey, Ukiah, chmn.; Robert E. Grimshaw, gen. mgr.; 36 staff; $400 million municipal bonds sold; 110 MW Shell 2 geothermal units completed; another 110-MW under construction; 12 members: Alameda, Biggs, Gridley, Healdsburg, Lodi, Lompoc, Palo Alto, Redding, Roseville, Santa Clara, Ukiah, Plumas-Sierra Cooperative. (estbl. 1968)*

SOUTHERN CALIFORNIA PUBLIC POWER AUTHORITY, 613 E. Broadway, Glendale, Cal. 91205; 213/956-2045; Karl A. Johnson, pres.; Arthur T. Devine, exec. dir.; 5.91 percent (225 MW) of Palo Verde Nuclear Project, southern transmission system of the Intermountain Power Project licensing and feasibility studies in progress for Mead-Phoenix direct current transmission line; 11 members: Anaheim, Azusa, Banning, Burbank, Colton, Glendale, Imperial Irrigation District, Los Angeles, Pasadena, Riverside, Vernon. (estbl. 1980)*

SOUTHERN CALIFORNIA UTILITY POWER POOL, c/o Los Angeles, Cal., Dept. of Water and Power, 111 N. Hope St., Room 1255, Box 111, 90051, 213/481-6003, Raymond C. Burt, Los Angeles, exec. cmmt. chmn.; projected: 7,495 MW (members' total capacity); 4 members: Burbank, Glendale, Los Angeles, Pasadena. (estbl. 1982)

TRANSMISSION AGENCY OF NORTHERN CALIFORNIA (TANC), c/o RMI Inc., 1010 Hurley Way, Suite 500, Sacramento, Cal. 95825, 916/924-1534, Lloyd Harvego, eng. consultant, 14 members: Alameda, Biggs, Gridley, Healdsburg, Lodi, Lompoc, Modesto Irrigation District, Palo Alto, Redding, Roseville, Sacramento Municipal Utility District, Santa Clara, Turlock Irrigation District, Ukiah. (estbl. 1984)

Colorado

ARKANSAS RIVER POWER AUTHORITY, 103A E. Elm, Box 70, Lamar, Colo. 81052; 303/336-3496; John Lackey, Raton, N.M., pres.; James M. Henderson, gen. mgr.; pur. 118,000,000 kWh; rev. $3,466,000; projected: 80-MW-120 MW coal plant; 7 members: Lamar, Walsenburg, La Junta, Las Animas, Springfield, Trinidad, Walsenburg, Colo., and Raton, N.M.*

PLATTE RIVER POWER AUTHORITY, Timberline & Horsetooth Roads, Fort Collins, Colo. 80525, 303/226-4000; Bob Dekker, Estes Park, chmn.; James D. Pendergrass, gen. mgr.; current: 404,000 kW coal, gen. 1,977.3 million kWh, pur. 826 million kWh, rev. $116,541,800; 4 members: Estes Park, Fort Collins, Longmont, Loveland. (estbl. 1973)*

Connecticut

CONNECTICUT MUNICIPAL ELECTRIC ENERGY COOPERATIVE, 268 Thomas Rd., Groton, Conn. 06340; Joseph Waltz, chmn.; 203/446-0620; Maurice R. Scully, exec. dir.; 20 staff; sales 839,477,944 kWh; peak demand 135.2 MW; $90.21 million bonds issued; life-of-unit contracts to 164-MW; 70 MW nuclear, 75 MW oil-fired, 12 MW pumped storage, 7 MW hydro; 12-MW share of Millstone 3 nuclear unit; Hydro-Quebec interconnection 1% participant; designated bargaining agent for state of Connecticut for hydro power from New York Power Authority; 3 participants: Groton, Norwich, Jewitt City. (estbl. 1976)*

Delaware

DELAWARE MUNICIPAL ELECTRIC CORP., care of: City of Newark, Box 390, Newark, Del. 19711; 302/366-7070; Harry M. Odren, Smyrna, bd. chmn.; Albert K. Martin, Newark, pres.; 6 members: Clayton, Middletown, Milford, Newark, New Castle, Smyrna. (estbl. 1979)

Florida

FLORIDA MUNICIPAL POWER AGENCY, 7200 Lake Ellenor Drive, Suite 154, Orlando, Fla. 32809; 305/859-7310; Barbara Bidwell, New Smyrna Beach, chmn.; Calvin R. Henze, gen. mgr.; 7 staff; projected: 70-MW share in 802-MW St. Lucie No. 2 nuclear unit, 127-MW share in 405-MW Stanton coal unit, $415 million loans; 25 members: Alachua, Bartow, Blountstown, Bushnell, Clewiston, Fort Meade, Fort Pierce, Gainesville, Green Cove Springs, Homestead, Jacksonville Beach, Key West, Kissimmee, Lake Worth, Leesburg, Moore Haven, Newberry, New Smyrna Beach, Ocala, St. Cloud, Sebring, Starke, Tallahassee, Wauchula, Vero Beach. (estbl. 1978)*

Georgia

MUNICIPAL ELECTRIC AUTHORITY OF GEORGIA, 1470 Riveredge Pkwy. NW, Atlanta, 30328; 404/952-5445; Gayle Manley, Albany, chmn.; Donald L. Stokley, gen. mgr.; 63 staff; current: 270 MW of 1,524-MW Hatch nuclear plant, 500 MW of 1,657-MW Scherer coal plant, 263 MW of 1,739-MW Wansley coal plant, purchase approx. 2.4 billion kWh from Georgia Power Co.; approx. 5.4 billion kWh sales; $1.5 billion financing; projected: 523 MW of 2,300-MW Vogtle nuclear plant; 47 members: Adel, Albany, Barnesville, Blakely, Brinson, Buford, Cairo, Calhoun, Camilla, Cartersville, College Park, Commerce, Covington, Crisp County, Doerun, Douglas, East Point, Elbertson, Ellaville, Fairburn, Fitzgerald, Forsyth, Fort Valley, Grantville, Griffin, Hogansville, Jackson, LaFayette, LaGrange, Lawrenceville, Mansfield, Marietta, Monroe, Monticello, Moultrie, Newnan, Norcross, Palmetto, Quitman, Sandersville, Sylvania, Sylvester, Thomaston, Thomasville, Washington, West Point, Whigham. (estbl. 1975)*

Illinois

ILLINOIS MUNICIPAL ELECTRIC AGENCY, 108 Wilmot Road, Suite 208, Deerfield, Ill. 60015; 312/940-7664; Gary Zimmerman, gen. mgr.; Theodore Volding, pres., bd. of dir.; 27 members: Altamont, Batavia, Bethany, Breese, Bushnell, Cairo, Chatham, Farmer City, Freeburg, Geneseo, Geneva, Highland, Ladd, Mascoutah, Naperville, Oglesby, Peru, Princeton, Rantoul, Riverton, Rochelle, Rock Falls, Springfield, St. Charles, Sullivan, Waterloo, Winnetka.(establ. 1984)

Indiana

INDIANA MUNICIPAL POWER AGENCY, 5920 Castleway West Dr., Box 50700, Indianapolis, Ind. 46250; 317/849-3242;

---

*denotes APPA membership

Frank Rudolph, bd. chmn.; Jesse Tilton, gen. mgr.; 25 percent (156 MW) participation in Gibson No. 5 unit; 26 members: Anderson, Bargersville, Centerville, Columbia City, Covington,Crawfordsville, Darlington, Flora, Frankfort, Frankton, Greenfield, Jamestown, Lawrenceburg, Lebanon, Linton, Middletown, Paoli, Pendleton, Peru, Rensselaer, Richmond, Rising Sun, Scottsburg, South Whitley, Tipton, Washington. (estbl. 1980)*

Iowa

NORTH IOWA MUNICIPAL ELECTRIC COOPERATIVE ASSOCIATION, Box 445, Hwy. 169 and 5th Ave. N., Humboldt, Iowa 50548; 515/332-2981; Richard A. Johnson, Humboldt, exec. vice pres.; Ronald L. Deiber, Alta, pres.; coordination of members regarding purchase/sale of power, load forecasting, future supply sources, monthly power billings; 16 members: Algona, Alta, Bancroft, Cedar Falls, Coon Rapids, Forest City, Graettinger, Grundy Center, Laurens, Milford, New Hampton, Spencer, Sumner, Waverly, Webster City, West Bend. (estbl. 1965)*

SOUTH IOWA MUNICIPAL ELECTRIC COOPERATIVE, 321 N. First St., Winterset, Iowa 50273; 515/462-2454, -2152, George C. Berry, Winterset, pres.; projected: purchase 50 MW of 650-MW Guthrie County (Iowa) coal unit; 19 members: Brooklyn, Cascade, Corning, Earlville, Fontanelle, Gowrie, Grand Junction, Greenfield, Indianola, Independence, Lamoni, La Porte, Lenox, Ogden, Preston, State Center, Stuart, Villisca, Winterset. (estbl. 1967)

MISSOURI BASIN MUNICIPAL ELECTRIC COOPERATIVE ASSOCIATION, 125 Central Ave., S.E., Orange City, Iowa 51041; 712/737-4885; Allen Roos, Orange City, pres.; Harold Schiebout, Sioux Center, vice pres.; Dean E. Meyer, Harley, sec.-treas.; owns 40 MW transmission capacity through Northwest Iowa Power Cooperative distribution system; 18 members: Alton, Denison, Fontanelle, Hartley, Hawarden, Kimballton, Lake Park, Manilla, Orange City, Paullina, Primghar, Remsen, Rock Rapids, Sanborn, Shelby, Sioux Center, Wall Lake, Woodbine. (estbl. 1978)

WESTERN IOWA MUNICIPAL ELECTRIC COOPERATIVE ASSOCIATION, 223 Main St., Manning, Iowa 51455; 712/653-3214; Orville Fink, Manning, pres.; Donald Krause, Hinton, vice pres.; 17 MW of Neal 4 coal-fired plant; 6 members: Anthon, Aurelia, Hinton, Manning, Mapleton, Onawa. (estbl. 1973)

Kansas

KANSAS MUNICIPAL ENERGY AGENCY, Box 388, 6950 Squibb Rd., Suite 414, Mission, Kan. 66202; 913/677-2885; John Elder, Winfield, pres.; Gilbert E. Hanson Jr., gen. mgr.; 5 staff; 37.5-MW life-of-unit share of Nearman coal plant, 4 MW of Holcomb coal plant, 10.1 MW Southwestern Power Administration hydro peaking power, interconnection of 6 members into the grid; 32 members: Augusta, Baldwin City, Belleville, Burlington, Chanute, Clay Center, Colby, Ellis, Erie, Fredonia, Garnett, Girard, Greensburg, Herington, Hoisington, Iola, Larned, Meade, Mulvane, Neodesha, Norton, Oberlin, Osawatomie, Ottawa, Pratt, St. Francis, Sharon Springs, Sterling, Stockton, Washington, Wellington, Winfield. (estbl. 1978)*

Louisiana

LOUISIANA ENERGY AND POWER AUTHORITY, 315 Johnson St., Lafayette, La. 70501; 318/269-4046; Mayor Edward ("Bubba") Lyons, Houma, chmn.; Sylvan Richard, mgr.; 4 staff; 20 percent share in 530-MW coal-fired Rodemacher No. 2 unit, power supplier for members via purchase of members' power and sell-back of lowest-cost power; projected: may add to supply with waste heat and Louisiana lignite; 13 members: Abbeville, Alexandria, Houma, Jonesville, Lafayette, Minden, Morgan City, Natchitoches, New Roads, Plaquemine, Rayne, St. Martinville, Winnfield. (estbl. 1980)*

Maine

DIRIGO ELECTRIC COOPERATIVE, 2 Central Plaza, Augusta, Maine 04330; 207/622-4406; James L. Dean III, Calais, pres.; Robert B. Miller, Lubec, vice pres.; David C. Seuss, Vinalhaven, sec.; Gordon A. Treadwell, treas.; Gordon Weil, gen. mgr.; 10 members: Eastern Maine Electric Co-op., Fox Islands Electric Co-op., Houlton, Kennebunk, Lubec, Madison, Matinicus, Swans Island Electric Co-op., Union River Electric Co-op., Van Buren. 2 associates members: Isle au Haut, Stonington & Deer Isle Power. (estbl. 1978)

Massachusetts

MASSACHUSETTS MUNICIPAL WHOLESALE ELECTRIC CO., Stony Brook Energy Center, Box 426, Ludlow, Mass. 01056; 413/589-0141; Horst Huehmer, Hudson, chmn.; Richard K. Byrne, gen. mgr.; $1.2 billion financing; Stony Brook 334-MW intermediate generating unit and 170-MW peaking unit; 34 members: Ashburnham, Belmont, Boylston, Braintree, Chicopee, Concord, Danvers, Georgetown, Groton, Hingham, Holden, Holyoke, Hudson, Hull, Ipswich, Littleton, Mansfield, Marblehead, Merrimac, Middleborough, Middleton, North Attleborough, Paxton, Peabody, Princeton, Reading, Rowley, Shrewsbury, South Hadley, Sterling, Templeton, Wakefield, West Boylston, Westfield. (estbl. 1976)

Michigan

MICHIGAN PUBLIC POWER AGENCY, 2120 44th St. S.E., Kentwood, Mich. 49508; 616/455-1460; Earl F. Brush, Lansing, chmn.; Richard I. Gorman, gen. mgr.; 5 staff; current: 38-MW share of 770-MW Campbell No. 3 coal unit; projected: 242.65-MW share of 652-MW Belle River No. 1 coal unit; gen. 248 million kWh; pur. 21 million kWh; rev. $10,697,676; 18 members: Bay City, Charlevoix, Chelsea, Croswell, Grand Haven, Harbor Springs, Hart, Holland, Lansing, Lowell, Niles, Paw Paw, Petoskey, Portland, St. Louis, Sebewaing, Traverse City, Zeeland. (estbl. 1978)*

MICHIGAN SOUTH CENTRAL POWER AGENCY, Box 62, 720 Herring Road, Litchfield, Mich. 49252; 517/542-2346; James R. Endicott, Coldwater, chmn. and commissioner; 47 staff; 55-MW coal plant; 5 members: Clinton, Coldwater, Hillsdale, Marshall, Union City. (estbl. 1979)*

Minnesota

NORTHEASTERN MINNESOTA MUNICIPAL POWER AGENCY, Box 249, 19th St. and 6th Ave., Hibbing, Minn. 55746; 218/263-7515; David C. Strafaccia, Hibbing, pres.; Norman Schroder, Staples, chmn.; 12 members: Aitkin, Biwabik, Buhl, Ely, Gilbert, Grand Rapids, Hibbing, Keewatin, Mountain Iron, Nashwauk, Staples, Virginia.

NORTHERN MUNICIPAL POWER AGENCY, Box 528, Thief River Falls, Minn. 56701; 218/681-5816, -8002; John T. Anderson, Thief River Falls, pres./gen. mgr.; 30 percent share of 414.6 MW Coyote lignite plant, full requirements power supplier for 12 cities; $268 million financing; 12 members: Bagley, Baudette, Fosston, Halstad, Hawley, Roseau, Stephen, Thief River Falls, Warren, Warroad, Minn.; Grafton, Park River, N.D.

SOUTHERN MINNESOTA MUNICIPAL POWER AGENCY, (includes former United Minnesota Power Authority),
21 First St. S.W., Suite 400, Rochester, Minn. 55902; 507/285-0478; Donald E. Meyer, New Prague, pres.; Pierre J. Heroux, exec. dir.; $428.5 million in bonds; current: 328-MW share in 800-MW Sherco 3 plant, gen. 416,515,616 kWh; pur. 901,281,344 kWh; rev. $53,830,705. Shared transmission agreements with Northern States Power Co., Dairyland Power Cooperative, Interstate Power Co., United Power Association; staff 27; 21 members: Austin, Blooming Prairie, Fairmont, Grand Marais, Lake City, Litchfield, Mora, New Prague, New Ulm, North Branch, Owatonna, Preston, Princeton, Redwood Falls, Rochester, Spring Valley, St. Peter, Truman, Waseca, Wells, Windom. (estbl. 1977).*

WESTERN MINNESOTA MUNICIPAL POWER AGENCY, 212 Second St. N.W., Ortonville, Minn. 56278; 612/839-2549; Russell F.

Berg, Wadena, pres.; Russell Dau, gen. mgr.; staffed by Missouri Basin Municipal Power Agency; 272-MW share of 1,650-MW Missouri Basin Power Project; 21 members: Adrian, Alexandria, Barnesville, Benson, Detroit Lakes, Elbow Lake, Henning, Jackson, Lakefield, Lake Park, Luverne, Madison, Moorhead, Ortonville, St. James, Sauk Center, Staples, Wadena, Westbrook, Windom, Worthington. (estbl. 1976)

Mississippi

MUNICIPAL ENERGY AGENCY OF MISSISSIPPI, c/o Greenwood Utilities, Box 866, Greenwood, Miss. 38930; 601/453-4761; Richard M. Webster Jr., Clarksdale, chmn.; Kenneth E. Devillers, gen. mgr.; 8 members: Canton, Clarksdale, Durant, Greenwood, Itta Bena, Kosciusko, Leland, Yazoo. (estbl. 1978)*

Missouri

MISSOURI JOINT MUNICIPAL ELECTRIC UTILITY COMMISSION, 310 Tiger Lane, Columbia, Mo. 65203; 314/445-3279; Thomas Hill, Marshall, chmn.; Bob Barnett, mgr. eng. & oper.; 39 members: Albany, Bethany, Cameron, Campbell, Carthage, Centralia, Chillicothe, Columbia, Fredericktown, Fulton, Gallatin, Hannibal, Hermann, Higginsville, Independence, Jackson, Kirkwood, Lamar, La Plata, Macon, Malden, Marshall, Memphis, Monroe City, New Madrid, Nixa, Odessa, Poplar Bluff, Richland, Rolla, Salisbury, Sikeston, Slater, Springfield, Trenton, Unionville, Vandalia, Waynesville, West Plains. (estbl. 1980)*

Nebraska

NEBRASKA MUNICIPAL POWER POOL, Box 95124, 1335 L St., Lincoln, Neb. 68509; 402/474-4759; Robert E. Arraj, Kimball, pres.; H. Steve Wacker, gen. mgr.; 20 staff; 70 members: Alliance, Ansley, Arnold, Auburn, Bayard, Beatrice, Beaver City, Benkelman, Blue Hill, Bridgeport, Broken Bow, Burwell, Callaway, Cambridge, Central City, Chappell, Crete, Curtis, David City, Fairbury, Falls City, Franklin, Fremont, Gering, Grand Island, Grant, Hastings, Holdrege, Imperial Public Power District, Kimball, Lexington, Lincoln, Lodgepole, Lyman, Lyons, Mitchell, Morrill, Mullen, Nebraska City, Neligh, North Platte, Oxford, Pender, Plainview, Red Cloud, Sargent, Seward, Shickley, Sidney, South Sioux City, Stromsburg, Stuart, Superior, Sutton, Syracuse, Tecumseh, Valentine, Wahoo, West Point, Wilber, Wilcox, Wisner, Wood River, Neb.; Fleming, Haxtun, Holyoke, Lyons, Wray, Neb., and Aspen and Yuma, Colo. (estbl. 1975)*

MUNICIPAL ENERGY AGENCY OF NEBRASKA (Nebraska Municipal Power Pool is operating agent), Box 95124, 1335 L St., Lincoln, Neb. 68509; 402/474-4759; Robert Stull, Gering, chmn.; H. Steve Wacker, exec. dir. and sec.-treas.; 20 staff; current: 35-MW share of Nebraska City No. 1 coal unit, 10-MW share of Laramie River Coal Station, 5-MW share of Hastings Energy Center Unit 1; gen. 57,000 kWh (includes members' capacity used by MEAN); sales 445,761,000 MWh; $15 million financing issued March 1983; 21 members: Alliance, Bayard, Beaver City, Blue Hill, Burwell, Chapell, Curtis, Fairbury, Falls City, Gering, Kimball, Lyman, Mitchell, Morrill, Mullen, Oxford, Pender, Red Cloud, Stuart, Wahoo, West Point. (estbl. 1981)

North Carolina

NORTH CAROLINA MUNICIPAL POWER AGENCY NUMBER 1, Box 95162, 3117 Poplarwood Court, Raleigh, N.C. 27625; 919/876-9170; Mayor George Clay Jr., Shelby, chmn.; James T. Bobo, gen. mgr.; $1.375 billion financing; 75 percent (859-MW) share of Catawba Nuclear Station Unit 2, 37.5 percent of its support facilities; 19 participants: Albemarle, Bostic, Cherryville, Cornelius, Drexel, Gastonia, Granite Falls, High Point, Huntersville, Landis, Lexington, Lincolnton, Maiden, Monroe, Morgantown, Newton, Pineville, Shelby, Statesville and one member: Concord. (estbl. 1976)*

NORTH CAROLINA EASTERN MUNICIPAL POWER AGENCY, Box 95162, 3117 Poplarwood Court, Raleigh, N.C. 27625; 919/876-9170; Mayor Frederick F. Turnage, Rocky Mount, chmn.; James T. Bobo, gen. mgr.; $1.3 billion financing; projected: undivided ownership interests, from 13 to 18 percent, in Brunswick Nuclear Station, Roxboro Plant, Mayo Plant, Shearon Harris Nuclear Plant; 32 participants: Apex, Ayden, Belhaven, Benson, Clayton, Edenton, Elizabeth City, Farmville, Fremont, Greenville, Hamilton, Hertford, Hobgood, Hookerton, Kinston, La Grange, Laurinburg, Louisburg, Lumberton, New Bern, Pikeville, Red Springs, Robersonville, Rocky Mount, Selma, Scotland Neck, Smithfield, Southport, Tarboro, Wake Forest, Washington, Wilson.*

North Dakota

NORTH DAKOTA MUNICIPAL POWER AGENCY, Northwood, N.D. 58267; 701/587-5581; Truman Wold, Northwood, pres.; Robert H. Griffin, vice pres.; 6 members: Cavalier, Hillsboro, Hope Lakota, Northwood, Valley City. (estbl. 1977)

Ohio

AMERICAN MUNICIPAL POWER-OHIO (AMP-OH) (merged with Ohio Municipal Electric Association in 1983), Box 549, 1001 Eastwind Dr., Suite 109, Westerville, Ohio 43081; 614/890-2805; Richard H. Gorsuch, pres.; Henry A. Bell, Columbus, chmn.; bulk power supplier for 50 members; 66 members: Amherst, Arcanum, Beach City, Blanchester, Bloomdale, Bowling Green, Bradner, Brewster, Bryan, Celina, Cleveland, Columbiana, Columbus, Custar, Cuyahoga Falls, Cygnet, Deshler, Dover, Edgerton, Elmore, Galion, Genoa, Grafton, Hamilton, Haskins, Hubbard, Hudson, Jackson, Jackson Center, Lakeview, Lebanon, Lodi, Lucas, Mendon, Milan, Minster, Monroeville, Montpelier, Napoleon, New Bremen, New Knoxville, Newton Falls, Niles, Oak Harbor, Oberlin, Orrville, Pemberville, Pioneer, Piqua, Prospect, Seville, Shelby, South Vienna, St. Clairsville, St. Marys, Sycamore, Tipp City, Versailles, Wadsworth, Wapakoneta, Waynesfield, Wellington, Westerville, Woodfield, Woodville, Yellow Springs. (estbl. 1972)

Oklahoma

OKLAHOMA MUNICIPAL POWER AUTHORITY, 2500 S. Broadway Centre, Suite 310, Edmond, 73034, 405/340-5047; Michael D. Brown, chmn.; Harry Dawson, gen. mgr.; 37 members: Altus, Anadarko, Blackwell, Claremore, Comanche, Cushing, Duncan, Edmond, Eldorado, Fairview, Frederick, Granite, Hominy, Lexington, Lindsay, Mangum, Marlow, Newkirk, Okeene, Olustee, Pawhuska, Pawnee, Perry, Ponca City, Pond Creek, Prague, Pryor, Purcell, Ryan, Stillwater, Stroud, Tecumseh, Walters, Watonga, Waynoka, Wynnewood, Yale. (estbl. 1981)*

South Carolina

PIEDMONT MUNICIPAL POWER AGENCY, Box 64, Gaffney, S.C. 29342; 803/489-8181; Jack E. Millwood, Gaffney, chmn.; Jim Bauer, gen. mgr. (plans to establish office in Greenville area early in 1985); issued $100 million in bonds due in 1988, $100 million in bonds due in 1990 and $530 million in long-term bonds for 25 percent ownership in 1,140-MW Catawba Nuclear Unit 2;10 members: Abbeville, Clinton, Easley, Gaffney, Greer, Laurens, Newberry, Rock Hill, Union, Westminster. (estbl. 1979)

South Dakota

HEARTLAND CONSUMERS POWER DISTRICT, Box 248, Madison, S.D. 57052; 605/256-6536; Ellwood Paulsen, Centerville, pres.; Wendell J. Garwood, gen. mgr.; 8 staff; 50-MW share of 1,650-MW Laramie River Coal Station; 21 members: Arlington, Aurora, Colman, Estelline, Groton, Hecla, Howard, McLaughlin, Madison, Parker, Plankinton, South Dakota State University-Brookings, University of South Dakota-Vermillion, State Training School-Plankinton, Tyndall, Volga, Wessington Springs, White, S.D.;

Akron, Iowa; Marshall, Tyler, Minn. (estbl. 1969)*

MISSOURI BASIN MUNICIPAL POWER AGENCY, Box 84610, Sioux Falls, S.D. 57188-4610; 605/338-4042; Earl La Maack, Alexandria, Minn., pres.; Russell Dau, gen. mgr.; 25 staff; gen. 332,000 kW (272,000 kW coal, 60,000 kW oil-fired); 1,261 million kWh; rev. $35.8 million; 55 members: Alton, Denison, Fontanelle, Granite Falls, Hartley, Hawarden, Kimballton, Lake Park, Manilla, Orange City, Paullina, Primghar, Remsen, Rock Rapids, Sanborn, Shelby, Sioux Center, Wall Lake, Woodbine, Iowa; Adrian, Alexandria, Barnesville, Benson, Detroit Lakes, Elbow Lake, Granite Falls, Henning, Jackson, Lake Park, Lakefield, Luverne, Madison, Moorhead, Ortonville, St. James, Sauk Centre, Staples, Wadena, Westbrook, Worthington, Minn.; Beresford, Big Stone City, Brookings, Burke, Faith, Flandreau, Fort Pierre, Pierre, Vermillion, Winner, Watertown, S.D.; Cavalier, Hillsboro, Lakota, Northwood, Valley City, N.D. (estbl. 1977)*

SOUTH DAKOTA MUNICIPAL POWER AGENCY, Box 84610, Sioux Falls, S.D. 57118; 605/224-7341; Dave Padgett, Pierre, pres.; issued bonds for Missouri Basin Municipal Power Agency office building; substation for Fort Pierre; 11 members: Beresford, Big Stone City, Brookings, Burke, Faith, Flandreau, Fort Pierre, Pierre, Vermillion, Watertown, Winner. (estbl. 1979)

Texas

LONE STAR MUNICIPAL POWER AGENCY, Drawer 9960, College Station, Texas 77840-2499, 409/764-3510, North Bardell, College Station, bd. pres.; C.B. "Buck" Herndon, Kirbyville, vice pres.; 4 members: College Station, Caldwell, Newton, Kirbyville.

SAM RAYBURN MUNICIPAL POWER AGENCY, 303 North Jackson, Livingston, Texas 77351; 409/327-5303; Wayne DuBose, Jasper, pres.; Robert D. Willis, exec. dir.; $157.25 million financing; $162,140, refunding bonds 1982, 108-MW share in 540-MW Nelson No. 6 coal unit (May 1982), 57-MW hydro project, option to participate in future Gulf States Co. projects; gen. 17,000 kW hydro; gen. 125,006,667 kWh; pur. 271,042,500 kWh; rev. $31,044,949; 4 members: Jasper, Liberty, Livingston, Texas, and Vinton, La. (estbl. 1979)*

TEXAS MUNICIPAL POWER AGENCY, Box 7000, Bryan, Texas 77805; 409/873-2013; Richard Stewart, Denton, pres.; Ed Wagoner, gen. mgr.; 300 staff; 400-MW lignite-fired Gibbons Creek Steam Electric Station; projected: 6.2 percent share of 2,300-MW Comanche Peak nuclear units, transmission facilities; 4 members: Bryan, Denton, Garland, Greenville.*

Utah

INTERMOUNTAIN POWER AGENCY, 5250 S. 300 West, Suite 101, Murray, Utah 84107; 801/262-8807; Reece D. Nielsen, chmn.; Ronald Rencher, gen. mgr.; current; transmission lines: one 500-kV direct current line, two 345-kV and one 230-kV ac lines, 1,522-MW coal-fired Intermountain Power Project under construction (two units to be completed in 1986 and 1987); 23 Utah municipal members and six California municipal participants: Anaheim, Burbank, Glendale, Los Angeles, Pasadena, Riverside, Cal.; Beaver City, Bountiful, Enterprise, Ephraim, Fairview, Fillmore City, Heber, Holden, Hurricane, Hyrum, Kanosh, Kaysville, Lehi, Logan, Meadow, Monroe, Morgan, Mount Pleasant, Murray, Oak City, Parowan, Price, Spring City, Utah. (Six cooperatives and one private utility are also participants in the project) (1974)*

UTAH ASSOCIATED MUNICIPAL POWER SYSTEMS, 8722 South 300 West, Sandy, Utah 84091; 801/566-3933; Dwight Day, Fillmore, chmn.; Carolyn S. McNeil, gen. mgr.; gen. 651,429,000 kWh; current: owns 14.6 percent of Hunter 2 coal-fired, steam generating plant; projected: purchase share of the Utah Power & Light Co. plant now held by Deseret G&T; 21 members: Beaver City, Enterprise, Ephraim, Fairview, Fillmore City, Heber Light & Power Co., Holden, Hurricane, Hyrum, Kanosh, Kaysville, Lehi City, Logan, Meadow, Monroe, Morgan, Mount Pleasant, Murray, Oak City, Parowan, Spring City. (estbl. 1980)*

UTAH MUNICIPAL POWER AGENCY, 683 South 400 West, Box 381, Payson, Utah, 84651; 801/465-2100, Glenn W. Greenhalgh, chmn.; Clark Bigler, exec. sec.; 8 members: Levan, Manti, Nephi, Payson, Provo, Salem, Springvale, Spanish Fork. (estbl. 1981)

Vermont

VERMONT PUBLIC POWER SUPPLY AUTHORITY, 512 St. George Rd., Box 425, Williston, Vt. 05495; 802/878-5274; Kenneth C, Mason, Lyndonville, chmn.; Paul H. Bradtmiller, gen. mgr.; 14 staff; 11 members: Burlington, Enosburg Falls, Hardwick, Ludlow, Lyndonville, Morrisville, Northfield, Springfield, Stowe, Swanton, Washington Electric Cooperative. (estbl. 1979)*

Washington

CENTRAL WASHINGTON POWER AGENCY, 1400 E. Vantage Hwy., Ellensburg, Wash. 98926; 509/925-3164; Harold W. Jenkins, Ellensburg, and E. Roy Mundy, Ephrata, dirs.; 2 members: Grant County and Kittitas County public utility districts. (estbl. 1962)

CLARK-COWLITZ JOINT-OPERATING AGENCY, Box 1279, Longview, Wash. 98632; 206/423-2210; Paul Runyan, Clark County PUD, dir.; Steven L. Ferrell, Cowlitz County PUD, dir.; projected: attempting to acquire 134-MW Merwin Dam hydro plant; 2 members: Clark County PUD, Cowlitz County PUD.

WASHINGTON PUBLIC POWER SUPPLY SYSTEM, Box 968, Richland, Wash. 99352-0968; 509/372-5000; Carl Halvorson, Portland, Ore., chmn.; Kenneth Cochrane, Kahlotus, pres.; Donald W. Mazur, managing dir.; gen. 1,966 MW nuclear, 27.5 MW hydro; operating rev. $44,810,000; 20 members: cities of Ellenburg, Richland, Seattle, Tacoma, and public utility districts of following counties—Benton, Chelan, Clark, Douglas, Ferry, Franklin, Grant, Grays Harbor, Kittitas, Klickitat, Lewis, Okanogan, Pacific, Skamania, Snohomish, Wahkiakim. (Participants in the WPPSS nuclear plants include 32 municipalities, 26 PUDS, 52 cooperatives and 5 investor-owned utilities.) (estbl. 1957)*

Wisconsin

BADGER POWER MARKETING AUTHORITY OF WISCONSIN INC., 122 N. Sawyer St., Shawano, Wis., 54166, 715/526-2920, M.E. Zeuske, Shawano, pres.; Al Moenke, Clintonville, vice pres.; Lee Ebert, Shawano, gen. mgr. Consisting of two member cities, Clintonville and Shawano, Badger expects to add municipal and cooperative associate members. Badger plans to construct by 1986 a 30-mile, 115-kV transmission line to three investor-owned utilities. (estbl. 1984)

WESTERN WISCONSIN MUNICIPAL POWER GROUP, 860 Lincoln Ave., Fennimore, Wis. 53809; 608/822-6501; Charles J. Leuck, Fennimore, pres.; 9 members: Arcadia, Argyle, Cashton, Cumberland, Elroy, Fennimore, Merrillan, New Lisbon, Viola. (estbl. 1976)

WISCONSIN PUBLIC POWER INC. SYSTEM, Box 44, Sun Prairie, Wis. 53590; 608/837-2653; Ernest J. Mullen, pres.; David W. Penn, gen. mgr.; 5 staff; pur. 1.6 billion kWh; 27 members: Algoma, Black River Falls, Boscobel, Cedarburg, Cuba City, Deerfield, Eagle River, Florence, Hartford, Jefferson, Kaukauna, Lake Mills, Menasha, Muscoda, New Holstein, New London, New Richmond, Oconomowoc, River Falls, Slinger, Sturgeon Bay, Two Rivers, Waterloo, Waunakee, Waupun, Westby, Whitehall.*

Wyoming

WYOMING MUNICIPAL POWER AGENCY, Box 900, Lusk, Wyo. 82225; 307/334-2170; John Harrison, Pine Bluffs, chmn.; Larry LaMaack, exec. dir.; 4 staff; 16.5-MW share of 1,650-MW coal-fired Missouri Basin Power Project, purchases power from Western Area Power Administration, transmission services from WAPA; gen. 33.1 million kWh; pur. 70.2 million kWh; rev. $3,378,956; 7 members: Cody, Fort Laramie, Guernsey, Lingle, Lusk, Pine Bluffs, Wheatland.* ✷

NATIONAL ASSOCIATION

AMERICAN PUBLIC POWER ASSOCIATION, 2301 M St. N.W., Washington, D.C. 20037, 202/775-8300, Alex Radin, exec. dir.; J.K. Spruce, Public Service Board, San Antonio, Texas, pres.; Gordon W. Hoyt, Anaheim, Cal., pres-elect.; Bill D. Carnahan, Fort Collins, Colo.; vice pres.; C.M. Perkins, Salt River Project, Phoenix, Ariz., treas.

REGIONAL ASSOCIATIONS

CENTRAL SERVICE ASSOCIATION (**TENNESSEE VALLEY**), Box 348, Tupelo, Miss. 38802-0348, 601/842-5962; Ronnie H. Hickman, gen. mgr.; M.E. Beavers, Cleveland (Tenn.) Utilities, pres.; J.M. Allen, Tombigee Electric Power Association, Tupelo, Miss., vice pres.; T.M. Barnett, Central Service Association, Tupelo, Miss., sec.-treas.*

COLORADO RIVER ENERGY DISTRIBUTORS ASSOCIATION, Salt River Project, Box 1980, Phoenix, Ariz. 85001; 602/236-5812; S.K. Bazant, Plains Electric G&T Co-op, Albuquerque, N.M., pres.; Les Ormsby, Arizona Power Authority, Phoenix, Ariz., vice pres.; John Sullivan, Salt River Project, Phoenix, Ariz., sec.-treas.*

GREAT LAKES ELECTRIC CONSUMERS ASSOCIATION, Suite 732, 2100 Pennsylvania Ave., N.W., Washington, D.C. 20037, 202/296-3788, Frank Frisk, exec. dir.; William Matson, Harrisburg, Pa., pres.; Gary Zimmerman, Deerfield, Ill., first vice pres.; Steve Smith, Bloomington, Ind., second vice pres.; Lynn C. Hill, Columbus, Ohio, sec.-treas.*

INTERMOUNTAIN CONSUMER POWER ASSOCIATION, 8722 S. 300 West, Sandy, Utah 84070, 801/566-3933, Carolyn McNeil, gen. mgr.; R. Leon Bowler, Beryl, Utah, pres.; Ted L. Olson, Ephraim, Utah, vice pres.; Ray Farrell, Heber, Utah, sec.; Vaun Bethers, Logan, Utah, treas.*

MID-WEST ELECTRIC CONSUMERS ASSOCIATION, Suite 300, Evergreen Executive Bldg., 27972 Meadow Drive, Box 910, Evergreen, Colo. 80439, 303/674-6676, Fred G. Simonton, exec. dir.; Joseph Brus, Lyon-Lincoln REC, Tyler, Minn., pres.; Ray R. Jilek, West Plains Electric Co-op, Dickenson, N.D., vice-pres.; Louis Stroup Jr., McPherson, Kan., sec.-treas.*

MISSOURI BASIN SYSTEMS GROUP, Box 2327, Estes Park, Colo. 80517; 303/586-2393; Robert F. Risch, exec. dir.; Dennis Lindberg, Odebolt, Iowa, pres.; Harvey K. Malon, Rapid City, S.D., vice pres.; James D. Davies, Billings, Mt., sec.-treas.; Russell Dau, Sioux Falls, S.D., asst. sec.-treas.*

NORTHEAST PUBLIC POWER ASSOCIATION, Suite 104, 148 Linden St., Wellesley, Mass. 02181, 617/237-9126, Chapman Stockford, gen. mgr.; Howard Peters, Pascoag, R.I., pres.; Robert O. Toombs, East Montpelier, Vt., vice pres.; Bruce P. Patten, Peabody, Mass., second vice pres.; William F. O'Connor, Taunton, Mass., sec.; James L. Dean, Calais, Maine, treas.*

NORTHWEST PUBLIC POWER ASSOCIATION, 1310 Main St., Box 1307, Vancouver, Wash. 98666, 206/694-6553, Norman C. Jacox, gen. mgr.; Jim Smith, Northern Canada Power Commission, pres.; Jim Thompson, Tacoma, Wash.; first vice-pres.; Bill McCrorie, Clallam County , Wash., second vice pres.; Wayne Yenni, Clearwater Power Co., Kendrick, Idaho, treas.*

SEMO-NEARK MUNICIPAL UTILITIES ASSOCIATION, Box 9, Paragould, Ark., 72450 501/236-8571, John McDaniels, pres.; Ted Bellars, Piggott, Ark. vice-pres.; Denver Turner, Piggot, Ark., 72454, sec.-treas.*

SOUTHWESTERN POWER RESOURCES ASSOCIATION, (formerly Committee on Power for the Southwest), Box 1360, 400 S. Broadway, Suite 3, Edmond, Okla. 73083, 405/340-1900, Michael McDowell, exec. dir.; Wayne DuBose, Jasper, Texas, chmn.; Walter Oestreich, Callaway Electric Co-op, Fulton, Mo., vice pres.; Buddy Veltema, Walter, Okla., sec.-treas.

PUBLIC POWER COUNCIL (**NORTHWEST**), 500 W. 8th St., Suite 110, Vancouver, Wash. 98660; 206/694-8593; Daniel M. Ogden Jr., mgr.; Harold Beckemeier, Grant Co. PUD, Quincy, Wash., chmn.*

TENNESSEE VALLEY PUBLIC POWER ASSOCIATION, 1201 Chestnut St., Chattanooga, Tenn. 37402, 615/756-6511, Jerry L. Campbell, exec. dir.; Hubert H. Williams, Southwest Tenn. EMC, Brownsville, Tenn., pres.; R.A. Azbell, Sheffield, Ala.; pres.; Tommy L. Kirkpatrick, Louisville, Miss., sec.-treas.*

STATE ASSOCIATIONS

ELECTRIC CITIES OF **ALABAMA**, Drawer 1748, 504 S. Perry St., Montgomery, Ala. 36103, 205/834-6222, Guy Thompson, Opelika, chmn.; Jimmy Garrett, Cullman, sec.-treas.

MUNICIPAL ELECTRIC UTILITY ASSOCIATION OF **ALABAMA**, Box 87, Lafayette, Ala. 36862, 205/864-9812, Edward Yeargan, chmn.; Dale Baker, Sylacauga, vice chmn.; S.A. Cherry, Dothan, sec.-treas.

ARIZONA MUNICIPAL POWER USERS' ASSOCIATION, 2712 N. Seventh St., Phoenix, Ariz. 85006-1003, 602/248-0372, Michael A. Curtis, exec. sec.; John Sullivan, Salt River Project, pres.; Wm. J. Metheny, Electrical District No. 2, vice pres.; Jerry Flanders, Arizona Elec. Power Coop., sec.; James Guinane, Arizona Electric Power Cooperative, treas.*.

CALIFORNIA MUNICIPAL UTILITIES ASSOCIATION, Suite 103, 1213 K St., Sacramento, Cal. 95814, 916/441-1733, Gerald L. Jordan, exec. dir.; Ernest Geddes, Turlock Irrigation Dist., pres.; Herbert B. Wessel, San Bernardino, vice pres.; Harold Guetersloh Jr., San Francisco, treas.; Regina Turney-Murph, Compton, sec.*

NORTHERN **CALIFORNIA** MUNICIPAL ELECTRIC ASSOCIATION, Drawer H, 2000 Grand St., Alameda, Cal. 94501, 415/522-7411 Maerose J. Humphreys, Alameda, pres.; Sam Lindley, Redding, treas.

COLORADO ASSOCIATION OF MUNICIPAL UTILITIES, 100 N. Second St., Lamar, Colo. 81052, 303/336-7456, Kevin G. Wailes, Lamar, pres.; Darrell Davis, Center, first vice pres.; David Plumb, Longmont, second vice pres.; Lowrye Hermes, Colorado Springs, sec.-treas.*

CONNECTICUT MUNICIPAL ELECTRIC & GAS ASSOCIATION, Box 190, 100 John St., Wallingford, Conn. 06492, 203/265-1593, Ray Smith, Wallingford, pres.; Wm. Lyons, East Norwalk, sec.*

FLORIDA MUNICIPAL UTILITIES ASSOCIATION, Box 10114, Suite 842, Barnett Bank Bldg., 315 S. Calhoun, Tallahassee, Fla. 32302, 904/224-3314, E.C. Shreve Jr., exec. vice pres.; J.R. "Buddy" Fort Jr., Ocala, pres., Richard L. Hester, Gainesville, pres.-elec.; William Joe Loadholtes, Fort Meade, vice-pres.; Joe B. Dykes Jr., Tallahassee, sec.-treas.*

** denotes APPA membership*

ELECTRICITIES OF GEORGIA, 34 Peachtree St., Suite 2300, Atlanta, Ga. 30303, 404/688-0472, Wyman Hughes, LaGrange, chmn.; Joe Solomon, Douglas, vice chmn.*

ILLINOIS MUNICIPAL UTILITIES ASSOCIATION, 300 E. Monroe, Suite 305, Springfield, Ill. 62701; 217/523-3532; Ivan L. Schraeder, exec. dir.; Victor Marma, Naperville, pres.; Burt Sammons, Bushnell, first vice pres.; Arthur O. Fischer, Waterloo, second vice pres.; M. Stephen Finn, Princeton, sec.-treas.*

INDIANA MUNICIPAL ELECTRIC ASSOCIATION Box 283, Tipton, Ind. 46072, 317/675-2334; Paul W. Osler, exec. dir.; Noel Olse, Tipton, pres.; Wayne Henry, Jamestown, vice pres.; James B. Nelson, Lebanon, sec.-treas.*

IOWA ASSOCIATION OF MUNICIPAL UTILITIES, Room 520, Insurance Exchange Bldg., Des Moines, Iowa, 50309, 515/282-0904, Bart Rule, exec. dir.; Robert Colyer, Lamoni, pres.; George Williams, Cedar Falls, vice pres.; Don Fahlenkamp, Montezuma, vice pres.; Russ Harris, Hawarden, sec.-treas.*

KANSAS MUNICIPAL UTILITIES, INC., Box 1225, McPherson, Kan. 67460, 316/241-1423, Louis Stroup Jr., exec. dir.; Ron Arnold, Larned, pres.; Jack Davis, Ottawa, pres.-elect.; John Walker, Washington, first vice pres.; Rick Doran, Garnett, second vice pres.; Henry Crosby, McPherson, sec.-treas.*

KENTUCKY MUNICIPAL ELECTRIC POWER ASSOCIATION, 214 W. Main St., Frankfort, Ky. 40601, 502/223-2063, Lyle D. Cobb, exec. dir.; Randell Young, Barbourville, pres.; Bill Austin, Franklin, vice pres.; Jim McCune, Monticello, sec.-treas.*

MUNICIPAL ELECTRIC ASSOCIATION OF MASSACHUSETTS, 80 Commercial St., Marblehead, Mass. 01945, 617/631-0240, John R. O'Neil, Concord, pres.; Mark T. Kelly, Middleton, first vice pres.; Joseph M. Blain, Taunton, second vice pres.;
Richard L. Bailey, Marblehead, sec.-treas.*

MICHIGAN MUNICIPAL ELECTRIC ASSOCIATION, 818 Cowley Ave., East Lansing, Mich. 48823, 517/351-6469 or 906/387-2226, S. Don Potter, exec. vice pres.; Edwin A. Korpi, Escanaba, pres.; Arthur G. Reinhold, Sebewaing, vice pres.; Clarence G. Pincumbe, Lansing, treas.*

MINNESOTA MUNICIPAL UTILITIES ASSOCIATION, Box 459, 401 E. Highway 55, Buffalo, Minn., 55313, 612/682-4104, Dick Kirkham, exec. dir.; Jeffrey Muehler, Breckenridge, pres.; Robert Filson, Mora, first vice pres.; Dennis Mathiason, Moorhead, second vice pres.; Ray Wigern, Wells, sec.-treas.*

MISSOURI ASSOCIATION OF MUNICIPAL UTILITIES, Box 401, 380 E. High St., Jefferson City, Mo. 65102, 314/635-4526, Wendell Locke, exec. sec.; Paul Jensen, Macon, pres.; Don Lloyd, New Madrid, first vice pres.; Gary Whorton, Trenton, second vice pres.; Robert Roundtree, Springfield, sec.-treas.*

NEBRASKA POWER ASSOCIATION, Box 80869, Lincoln, 68501, 402/473-3204, Debbra Hoy, admn. coord.; Walter A. Canney, Lincoln, pres.; Glen Schmieding, Beatrice, first vice pres.; Jon K. McCafferty, Fremont, second vice pres.; Don E. Schaufelberger, Columbus, sec.; Eldon C. Pape, Omaha, treas.

UTILITIES SECTION OF THE NEBRASKA LEAGUE OF MUNICIPALITIES, 1335 L St., Lincoln, Neb. 68508, 402/476-2829, David L. Chambers, director; George Wolverton, asst. in charge of utilities; Dick Bacon, Alliance, pres.*

MUNICIPAL ELECTRIC GENERATION ASSOCIATION (MEGA), Box 900, Farmington, N.M. 87499, 505/327-7701, Dwight D. Arthur, Farmington, sec.

MUNICIPAL ELECTRIC UTILITIES ASSOCIATION OF NEW YORK STATE, 19 Aviation Rd., Albany, N.Y. 12205, 518/459-6937, Betty Aiken, exec. sec.; Robert N. Vaisey, Fairport, pres., James A. Buff, Skaneateles, pres.-elect.; Patrick J. Hester, Rockville Centre, vice pres.; John McPeak, Solvay, vice pres.; James S. Pullan, Jamestown, treas.; George D. Reich, Plattsburgh, trustee; Wesley G. Ryder, Penn Yan, trustee.*

ELECTRICITIES OF NORTH CAROLINA INC., Box 95162, 3117 Poplarwood Court, Raleigh, N.C. 27625, 919/876-9470, James T. Bobo, gen. mgr.; Richard L. Thomas, Lexington, pres.; Boyd C. Myers, New Bern, first vice pres.; Judith P. Mendenhall, High Point, second vice pres.; Douglas O. Bean, Morganton, sec.; T. Bruce Boyette, Wilson, treas. *

NORTH CAROLINA ASSOCIATION OF MUNICIPAL ELECTRIC SYSTEMS, Box 3069, Raleigh, N.C. 27602, 919/834-1311, Ronnie Dail, Elizabeth City, pres.; Steve Slough, Concord, vice pres.; Linda K. Story, Granite Falls, sec.-treas.

NORTH DAKOTA ASSOCIATION OF MUNICIPAL POWER SYSTEMS, Box 240, Valley City, N.D. 58072, 701/845-2210, Truman Wold, Northwood, pres.; Roger Bischoff, Valley City, vice pres.; Robert Griffin, Valley City, sec.-treas.

AMERICAN MUNICIPAL POWER-OHIO INC.
(See listing in joint-action agency section. Ohio Municipal Electric Association merged into American Municipal Power-Ohio in 1983.)*

MUNICIPAL ELECTRIC SYSTEMS OF OKLAHOMA, c/o Oklahoma Municipal League, 201 N.E. 23rd St., Oklahoma City, Okla. 73105, 405/528-7564, Shane Woolbright, exec. dir.; Louis Garber, Edmond, pres.; Harvey Massey, Pawhuska, pres.-elect.; Corky Silvy, Ponca City, vice pres.; Bruce Stone, Blackwell, sec.-treas.*

LEAGUE OF PUBLICLY OWNED ELECTRIC UTILITIES OF OREGON, 1201 Court St. NE, Box 928, Salem, Ore. 97308, 503/588-6466, Tom O'Connor, exec. dir.; James A. Swayne, Milton-Freewater, pres.; Brian L. Almquist, Ashland, vice pres.; Doug Sleeth, Forest Grove, sec.-treas.

OREGON PUD ASSOCIATION, 1176 Chemeketa N.E., #101, Salem 97301, 503/370-4413, Marion Hemphill, exec. dir.; Frank Armstrong, Newport, pres.; Roland Nuetzman, Newport, sec.-treas. *

PENNSYLVANIA MUNICIPAL ELECTRIC ASSOCIATION, 212 Locust St., Box 1266, Harrisburg 17108-1266, 717/233-5704, William F. Matson, exec. sec.; Edward Olander, Lansdale, pres.; Lee Mangan, Lansdale, vice pres.; Robert Eckman, sec.; Victor Dickinson, treas.*

SOUTH CAROLINA ASSOCIATION OF MUNICIPAL POWER SYSTEMS, Box 667, Seneca, 29678, Jerry Balding, Seneca, pres.; Steve Hale, Easley, vice pres.; Dennis Arrington, Greer, sec.-treas.*

SOUTH DAKOTA MUNICIPAL ELECTRIC ASSOCIATION, 214 E. Capitol, Pierre, S.D. 57501, 605/224-8654, Robert H. Miller, exec. dir.; Craig Osbog, pres.; Richard Bailey, vice pres.

TENNESSEE MUNICIPAL ELECTRIC POWER ASSOCIATION, Box 311, The Paddock, G-13, Ward Circle, Brentwood, Tenn. 37027, 615/373-5738, T.O. Walker, exec. dir.; Jimmy Barnett, Jackson, pres.; Richard Turner, Lewisburg, pres.-elect.; Dalton Smith, Clarksville, sec.-treas.*

TEXAS PUBLIC POWER ASSOCIATION, 8240 Mo Pac Expressway, Suite 298, Austin, 78759, 512/346-3780, R. Michael Simmons, exec. dir.*

MUNICIPAL ELECTRIC ASSOCIATION OF VERMONT, Box 516, Hardwick, Vt. 05843, 802/472-3388, William D. Fee, pres.; Orman E. Croft, sec.-treas.

MUNICIPAL ELECTRIC POWER ASSOCIATION OF VIRGINIA, 311 Ironfronts, 1011 E. Main St., Richmond, Va. 23219 (Box 753, Richmond 23206), 804/649-8471, Christy A. Everson, exec. sec. William E. Willis, Radford, pres.; Richard H. Lee, Blackstone, vice pres.*

WASHINGTON PUBLIC UTILITY DISTRICTS' ASSOCIATION, 19518 Pacific Hgwy., South, Suite 102, Seattle, Wash. 98188, 206/824-6980, James Boldt, exec. dir.; Lois Powell, Grays Harbor County PUD, pres.; Francis Moore, Benton County PUD, vice pres.; Parker L. Knight, Skamania County PUD, sec.-treas.*

EASTERN WASHINGTON PUD COMMISSIONERS' ASSOCIATION, 19518 Pacific Hgwy., South, Suite 102, Seattle, Wash. 98188, 206/824-6980, James Boldt, exec. dir.; Aubrey Hart, Kittitas County PUD, Ellensburg, pres.; Ken Cochrane, Franklin County PUD, Pasco, vice pres.; Jim Martin, Okanogan County PUD, sec.-treas.

WESTERN WASHINGTON PUD COMMISSIONERS' ASSOCIATION, 19518 Pacific Hgwy., South, Suite 102, Seattle, Wash. 98188, 206/824-6980, James Boldt, exec. dir.; Jim Hubenthal, Lewis County PUD, Chehalis, pres.; Howard Richman, Cowlitz County PUD, Longview, vice pres.; Matt Dillon, Snohomish County PUD, Everett, sec.-treas.

MUNICIPAL ELECTRIC UTILITIES OF WISCONSIN, 221 - 16th St., South, Box 399, Wisconsin Rapids, 54494; Russell H. Kurtz, Lake Mills, exec. dir., 414/648-2258; Charles L. Leuck, Fennimore, pres.; Larry H. Bocock, Whitehall, first vice pres.; Robert A. Selchert, Sheboygan Falls, second vice pres.; Robert O. Stuhlmacher, Wisconsin Rapids, sec.-treas.* ✷

FEDERAL POWER AGENCIES

DEPARTMENT OF ENERGY, Washington, D.C. 20585, 202/252-5000
Secretary—Donald P. Hodel, 252-6210
Deputy secretary—Danny Boggs, 252-5500
Under secretary—Pat Collins, 252/2020
General counsel—Theodore J. Garrish, 252-5281
Inspector general—James R. Richards, 252-4393.
Assistant secretary, management and administration—Martha Hesse Dolan, 252-8010
Assistant secretary, congressional, intergovernmental and public affairs—Robert C. Odle Jr., 252-5450
Assistant secretary, international affairs and energy emergencies, Jan Mares, 252-5800
Assistant secretary, nuclear energy—James W. Vaughan Jr. 252-6450
Acting assistant secretary, policy, safety and the environment, Robert Odle, 252-6660
Assistant secretary, fossil energy, William A. Vaughan, 252-6660
Assistant secretary, defense programs—William W. Hoover, 252-2177
Director, office of energy research, Alvin Trivelpiece, 252-5444
Director, office of civilian radioactive waste management, Ben C. Rusche, 252-6850

Created under Public Law 95-91, signed by President Carter on Aug. 4, 1977, the Department of Energy (DOE) was activated on Oct. 1, 1977. The department includes federal power marketing agencies formerly in the Department of the Interior (see listings below); the former Federal Power Commission, renamed the Federal Energy Regulatory Commission (see listing below); all functions of the former Federal Energy Administration and Energy Research and Development Administration; and a variety of other functions transferred from several other federal departments and agencies.

ECONOMIC REGULATORY ADMINISTRATION, DOE, Washington, D.C. 20585, 202/252-2929. Administrator, Rayburn Hanzlik; deputy administrator, Paul Michael; special counsel, Milton Lorenz; solicitor, Carl Corrallo; director, Office of Fuels Programs, James Workman; director, office of management serv., Jay Thompson.

The Economic Regulatory Administration (ERA) is the entity within the Department of Energy responsible for administering and enforcing most of the department's regulatory programs.

ENERGY INFORMATION ADMINISTRATION, DOE, Washington, D.C., Forrestal Building 20585, 202/252-6351. Acting administrator Albert H. Linden Jr.; executive assistant, Lawrence Klur, 202/252-6358; director, National Energy Information Center, John E. Daniels, 252-8800 or 252-2363.

In establishing the Energy Information Administration (EIA) in 1977, Congress gave the agency the responsibility for ". . . carrying out a central, comprehensive and unified energy data and information program which will collect, evaluate, assemble, analyze and disseminate data and information which is relevant to energy resource reserves, energy production, demand and technology, and related economic and statistical information; or which is relevant to the adequacy of energy resources to meet demand in the near and long-term future for the nation's economic and social needs."

FEDERAL ENERGY REGULATORY COMMISSION, 825 N. Capitol Street, N.E., Washington, D.C. 20426, 202/357-8200. Commissioners (all terms expire Oct. 28 of year listed): Raymond J. O'Connor–Chairman (1987); Georgiana Sheldon (1984); Charles G. Stalon (1987); Anthony Souza (1984); Oliver G. Richard III (1985); secretary, Kenneth F. Plumb; executive director, William G. McDonald; director, office of electric power regulation, Larry Anderson; director, office of hydropower licensing, Quentin Edson; director, office of pipeline and producer regulation, Kenneth Williams; director, division of public information, Rachelle Patterson; director, division of congressional affairs, Pamela Simpson; director, division of intergovernmental affairs, Joan Simmons; chief, public reference branch, B.J. Martin.

ALASKA POWER ADMINISTRATION, Box 50, Juneau, Alaska 99802, 907/586-7405. Administrator, Robert J. Cross.*

Alaska Power Administration (APA) was established in 1967 to operate and market power from federal hydroelectric projects in Alaska including the 30,000-kW Eklutna Project constructed by the Bureau of Reclamation and the 47,160-kW Snettisham Project constructed by the Army Corps of Engineers. In fiscal 1984, APA sold 335 million kWh and had power revenues of $6.2 million.

**Denotes APPA membership*

BONNEVILLE POWER ADMINISTRATION, Box 3621, 1002 N.E. Holladay St., Portland, Ore. 97208, 503/230-3000. Administrator, Peter T. Johnson; deputy administrator, Robert E. Radcliffe; executive assistant administrator, James J. Jura; assistant administrator, power management, Edward W. Sienkiewicz; assistant administrator, Washington, D.C., office, Larry C. Larson, Forrestal Bldg., Room 8G033, Washington, D.C. 20585, 202/252-5640.*

Bonneville Power Administration (BPA), established under the Bonneville Project Act of 1937, markets power from projects constructed by the Army Corps of Engineers and the Bureau of Reclamation in the Columbia River Basin. As of Dec. 31, 1983, the Federal Columbia River Power System included 30 hydroelectric projects with 19,334,980 kW of installed capacity. During the calendar year, BPA sold 82.8 billion kWh of electricity for $1.4 billion to 170 customers including 37 municipalities, 26 public utility districts, 54 rural electric cooperatives, 8 private power companies, 6 federal and state agencies, 6 aluminum and 10 other industries in the Pacific Northwest, and 23 agencies and companies outside the Northwest.

SOUTHEASTERN POWER ADMINISTRATION, Samuel Elbert Bldg., Elberton, Ga. 30635, 404/283-3261. Administrator, Harry C. Geisinger; director, division of power sales, Kenelm E. Rucker; director, division of fiscal operations, Leon Jourolmon Jr.; director, division of power operations, Jim B. Lloyd; director, division of administrative management, Mary George Bond; acting general counsel, Denver L. Rampey Jr.*

Southeastern Power Administration (SEPA) was established in 1950 to market power from the Army Corps of Engineers projects in 10 southeastern states. In fiscal year 1984 SEPA sold 7.2 billion kWh from 21 projects with a total installed capacity of 2,792,375 kW and had revenues of $80.6 million.

SOUTHWESTERN POWER ADMINISTRATION, Box 1619, Page Belcher Federal Bldg., 333 W. Fourth, Tulsa, Okla. 74101, 918/581-7474. Administrator, Ronald H. Wilkerson; deputy administrator, Warren L. Jamison; director, power marketing division, Walter M. Bowers; director, power facilities division, James N. McClanahan; director, administrative management division, Francis R. Gajan; chief counsel, Charles A. Borchardt; public affairs officer, Bradley C. Byers; human resources officer, Maretta W. White.*

Southwestern Power Administration (SWPA) was established in 1943 to market power in Kansas, Missouri, Oklahoma, Arkansas, Texas and Louisiana. In fiscal year 1983 SWPA sold approximately 5.6 billion kWh of electricity from projects with a total installed capacity of 1,983,134 kW and had gross revenues of approximately $87 million.

WESTERN AREA POWER ADMINISTRATION (incorporating federal power marketing and transmission functions which were transferred from the Bureau of Reclamation), Box 3402, Golden, Colo. 80401, 303/231 + ext. Acting administrator, William H. Clagett (1511); assistant administrator for management services, Sal Cianella (1517); assistant administrator for engineering, Thomas L. Weaver (1516); assistant administrator for power management, operations and maintenance, Joe D. Hall (1518); general counsel, Stan C. Feuerberg (1534); public affairs officer, Robert M. Zeeck (1554); Washington liaison, Ronald Greenhalgh (202/252-5581).*

The service area of the Western Area Power Administration (Western or WAPA), a federal power marketing agency within the Department of Energy, extends into 15 western states and includes about 16,100 miles of transmission lines and approximately 7,908 MW of capacity at 48 hydro projects constructed by the Corps of Engineers and the Bureau of Reclamation. Additionally, Western markets the U.S. entitlement from the Navajo coal-fired plant near Page, Ariz. This brings the total installed generating capacity to 8,455 MW. During fiscal year 1983 power sales were about 44.1 billion kWh and power revenues were $440.5 million.

TENNESSEE VALLEY AUTHORITY, Knoxville, Tennessee 37902, 615/632-2101. Directors (9-year terms expire May 18): Charles H. Dean Jr., Chairman (1990); Richard M. Freeman (1987); John B. Waters Jr. (1993); General manager, William F. Willis; general counsel, Herbert S. Sanger Jr.; manager of power, Hugh G. Parris, Chattanooga, Tenn. 37401, 615/751-2823.*

The Tennessee Valley Authority (TVA) is a corporate agency of the federal government created by Congress in 1933 as a regional resource development agency. As of Sept. 30, 1984, the authority had a total installed capacity of 30,900,470 kW (coal-fired, 17,647,360 kW; nuclear 5,897,160 kW; hydro, 4,845,950 kW, combustion turbine, 2,510,000 kW) and also marketed the output of eight federal dams constructed by the Corps of Engineers on the Cumberland River (853,000 kW) and 4 dams of the Tapoco Co. (326,500 kW) for a total system capacity of 32,079,970 kW.

Almost 74 percent of TVA power sales of 109 billion kWh in fiscal 1984 were made at wholesale to 110 municipal utilities and 50 rural electric cooperatives serving 2.9 million consumers in Tennessee, northern Alabama, northern and eastern Mississippi, southern Kentucky, and smaller areas in northern Georgia, western North Carolina, and southwestern Virginia. TVA also sold 16.5 billion kWh to large, directly-served industries, 11.2 billion kWh to other federal agencies, and 318 million kWh to private power companies.

U.S. ARMY CORPS OF ENGINEERS, 20 Massachusetts Ave. N.W., Washington, D.C. 20314-1000, 202/272-0001. Chief of Engineers, Lt. Gen. E.R. Heiberg III; deputy chief of engineers, Maj. Gen. N.G. Delbridge Jr.; director of civil works, Maj. Gen. John F. Wall Jr.; exec. dir., civil works, Col. Michael Volpe.

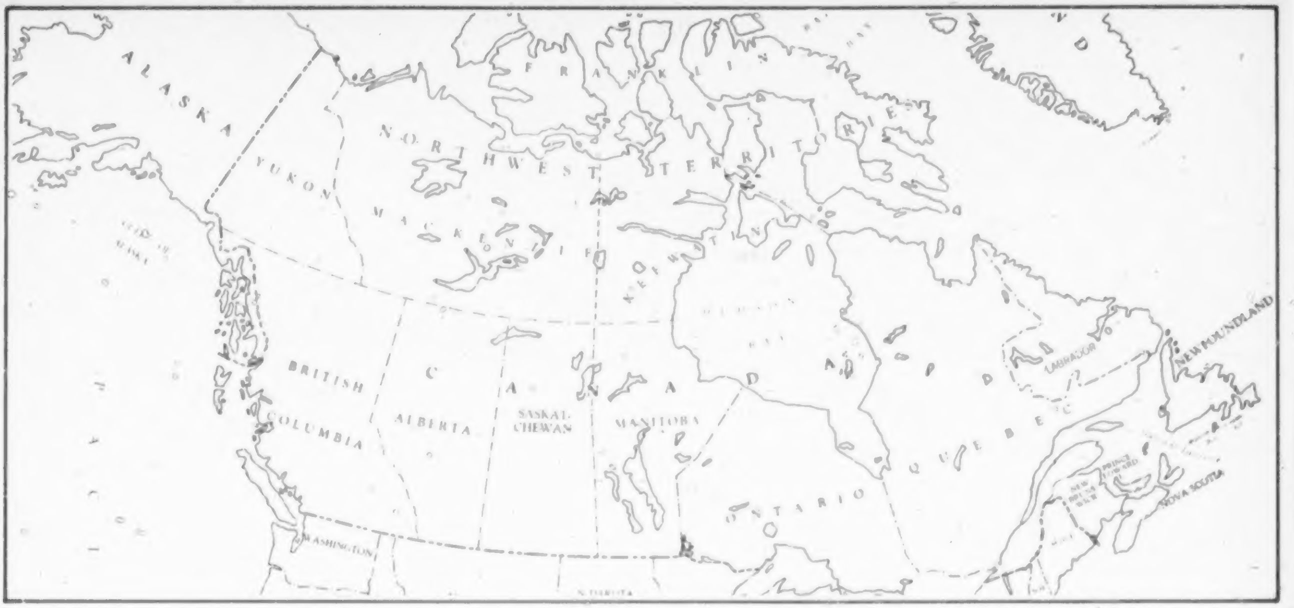
RURAL ELECTRIFICATION ADMINISTRATION, South Bldg., U.S. Dept. of Agriculture, Washington, D.C. 20250, 202/382-9540. Administrator, Harold V. Hunter; deputy administrator, Jack Van Mark; assistant administrator-electric, Joseph S. Zoller.

The Rural Electrification Administration (REA), established under executive order by President Franklin D. Roosevelt in 1935 and subsequently authorized by the Rural Electrification Act of 1936, makes loans and loan guarantees to provide electric and telephone service to rural areas.

		Fiscal Year 1984	*Cumulative*
Insured Loans:	*2 percent*	*$ 12,621,000*	*$9,882,696,818*
	5 percent	*837,379,000*	*8,170,211,000*
Total Insured		*850,000,000*	*18,052,907,818*
Electric loans guaranteed by REA:		*897,205,000*	*33,645,164,820*
Total:		*1,747,205,000*	*51,698,072,638*

NUCLEAR REGULATORY COMMISSION, 1717 H St. N.W., Washington, D.C. 20555, 202/634-1481. Commissioners (five-year terms expire June 30): Nunzio Palladino, chairman (1985); Thomas M. Roberts (1985); Lando W. Zech Jr. (1989); Frederick M. Bernthal (1988); James K. Asselstine (1987).

The Nuclear Regulatory Commission (NRC) licenses and regulates the use of nuclear energy by licensing persons and companies to build and operate nuclear reactors and to own and use nuclear materials. The NRC makes rules and sets forth standards for licenses and inspects activities of licensees. ✷



MAJOR CANADIAN ELECTRIC UTILITIES

by I. MURRAY PHILLIPS

manager, administrative services, Canadian Electrical Association

THIRTY ELECTRIC UTILITIES in Canada, represented by the Canadian Electrical Association (CEA), are directly responsible for generating more than 90 percent of the nation's electric energy. Most of the remaining power is generated by large industrial users with their own facilities.

Most electric utilities are responsible for generation, transmission and distribution to the ultimate customer. In several cases, major generating utilities sell in bulk to municipally owned utilities. With the exception of Ontario, where 324 municipally owned utilities buy power direct from the generating and transmitting authority (Ontario Hydro), most of the major municipal utilities elsewhere in Canada also are members of CEA.

Unlike in the United States, privately owned power companies in Canada are in the distinct minority. Most utilities are owned directly and completely by their provincial governments.

In 1983, power generation by utilities in Canada was 90.4 percent of the total electricity generation. This was made up of 21.72 percent thermal, 11.69 percent CANDU (Canadian Deuterium Uranium) nuclear and 66.6 percent hydraulic. Net exports to the United States amounted to 35,651.1 GWh (8.35 percent higher than in 1982, marginally higher than in 1981). This represented 9.01 percent of the total generation in Canada. Surplus generating capacity continues to exist and increased trade in electricity with the United States would be welcome.

The following is a brief outline of the major electric utilities in Canada, by province:

British Columbia

British Columbia Hydro & Power Authority is the largest electric utility in British Columbia. It is owned entirely by the provincial government and supplies the entire province. Total generating capacity is 8,760 of which 7,489 MW are hydroelectric.

West Kootenay Power is a small private utility dedicated principally to supplying power to a large private smelter operation in the interior of British Columbia. It also supplies power to the city of Trail. Generating capacity is 42 MW, all hydroelectric.

Alberta

Alberta is the only province in Canada that has not nationalized the power companies. This is the home of Canada's two largest private power companies.

TransAlta Utilities Corp., formerly Calgary Power Ltd., is the largest private or investor-owned electric utility in Canada, with an installed generating capacity of 3,733 MW, 2,933 of which are coal-fired. Most of the balance, 800 MW, is hydro. Some 568,000 customers are served directly or indirectly by TransAlta. That figure includes the customers served by the City of Calgary municipal utility which buys all of its power requirements in bulk from TransAlta.

Alberta Power, the second largest privately owned electric utility in Canada, is located in Edmonton, Alberta, and serves 139,890 customers directly, aside from some bulk power sales to Edmonton Power, the city-owned electric utility. Installed capacity is 1,056 MW, most of which is coal-fired thermal. Municipally owned Edmonton Power has installed generating capacity of 1,333 MW, most of which is natural gas-fired.

Alberta Power is owned by Canadian Utilities, which also owns and operates Yukon Electric in the Northwest Territories, and several gas utilities.

Saskatchewan

Saskatchewan Power Corp. serves all of the province's 381,278 electricity customers, and also services the province's natural gas needs. It is owned entirely by the provincial government. Of 2,440 MW of installed generating capacity, 1,760 MW derive from steam, 115 MW from internal combustion and the balance, 565 MW, from hydro.

Manitoba

Manitoba Hydro, owned by the provincial government, is the largest of two electric utilities in the province. Of a total installed capacity of 3,924 MW, 3,504 MW are produced from hydro. Manitoba Hydro serves the entire province directly with the exception of its largest city, Winnipeg, which is served by the municipal utility.

Winnipeg Hydro is a municipally owned utility serving 117,917 customers within the city. Installed generating capacity consists of 140 MW of hydro and 50 MW of coal-fired thermal power.

Ontario

Ontario Hydro is the largest electric utility in Canada. Owned by the provincial government, its mandate is to meet generation and transmission requirements within the province. Distribution to ultimate customers is handled by 324 municipal utilities which buy bulk power from Ontario Hydro. Seven hundred and sixty thousand retail customers in rural areas are served directly. Dependable peak capacity is 25,269 MW. Total deliveries in 1983 were 106.1 TWh (terawatt hours). CANDU nuclear produced 32.5 percent, 31.1 percent came from hydro and 30.4 percent from coal-fired thermal generation. Also included in the deliveries was 4 percent purchased energy.

Québec

Hydro-Québec is the second largest utility in Canada. It is owned by the provincial government and 19,555 MW of its total generating capacity of 21,301 MW are hydro. Total sales in 1983 amounted to 107.7 TWh. In addition to its own installed capacity, Hydro-Québec has access to most of the output of the Churchill Falls power plant.

The 685-MW CANDU nuclear unit, Gentilly II, has been introduced into the mix. The balance of Hydro-Québec's rated capacity, 1,058 MW, used for peaking, includes 600 MW oil-fired thermal, 362.8 MW gas turbine and 94.8 MW diesel.

New Brunswick

New Brunswick Electric Power Commission is wholly owned by the provincial government of New Brunswick. It is responsible for all generation, transmission, and distribution of electrical energy within the province. As of March 31, 1984, N.B. Power had 235,877 direct customers and was serving 37,617 customers through wholesale sales to the City of Saint John. Provincial loads were supplied from the following sources: 33.5 percent CANDU nuclear, 28.9 percent hydro, 23.2 percent from purchases, 8.6 percent coal and 5.8 percent oil. Total generation and purchases amounted to 16,299,213,045 kWh.

Nova Scotia

The Nova Scotia Power Corp. is also provincially owned. Its total generation capacity of 2,048 MW includes 1,518 MW of steam, 169 MW of gas turbine and 361 MW of hydro, as well as 0.3 MW of wind generation. In addition, a small tidal generation plant at Annapolis, N.S., was recently brought into service, the first of its kind in the Western Hemisphere.

Prince Edward Island

Maritime Electric Co. Ltd. is a small, privately owned utility serving Canada's smallest province. Maritime Electric's generating capacity includes 71 MW of oil-fired generation and 39 MW of gas turbine generation, interconnected to New Brunswick through a submarine cable across the strait.

Newfoundland

The province of Newfoundland is served by a combination of public and private utilities. The largest utility in the province, responsible for generation primarily and some distribution in remote areas, is Newfoundland and Labrador Hydro. It is owned by the government of the province of Newfoundland. Newfoundland and Labrador Hydro also owns Churchill Falls Labrador Corp., Twin Falls Power Corp., Gull Island Power Corp. and the Lower Churchill Development Corp. Including all its subsidiaries, Newfoundland and Labrador Hydro has a total of 6,839 MW of installed capacity, of which 6,130 MW are hydro. The Churchill Falls Labrador Corp. plant represents 5,225 MW of this. There is a 450-MW oil-fired thermal plant; three gas turbine installations produce 110 MW. The other generation is diesel, serving remote areas of this sparsely populated province. Another hydro site is under construction at Cat Arm (127 MW).

Aside from serving large industrial customers in some areas, and individual customers in remote areas, the bulk of Newfoundland and Labrador Hydro's generation is sold to Newfoundland Light & Power Corp., a private utility responsible for distribution to most of the island's individual customers. Newfoundland Light & Power Corp. also has some of its own generation, including 30 MW of oil-fired generation, 45 MW gas turbine generation, 14 MW of internal combustion generation and 84 MW of hydro generation.

Those are the principal utilities within Canada. Following are their addresses, phone numbers and chief operating or executive officers:

British Columbia Hydro and Power Authority, 970 Burrard St., Vancouver, British Columbia V6Z 1Y3, 604/663-2212, R. W. Bonner, chairman; J. N. Olsen, president and chief operating officer.

Alberta Power Ltd., 10040 - 104th St., Edmonton, Alberta T5J 2V6, 403/420-7310, W.R. Horton, president and chief executive officer.

TransAlta Utilities Corp., Box 1900, 110 - 12th St. S.W., Calgary, Alberta T2P 2M1, 403/267-7110, M. M. Williams, president and chief executive officer.

Saskatchewan Power Corp., 2025 Victoria Ave., Regina, Saskatchewan S4P 0S1, 306/527-7611, E. B. Campbell, president.

Manitoba Hydro, Box 815, 820 Taylor Ave., Winnipeg, Manitoba R3C 2P4, 204/474-3311, J. J. Arnason, president and chief executive officer.

Ontario Hydro, 700 University Ave., Toronto, Ontario M5G 1X6, 416/592-5111, M. Nastich, president.*

Hydro-Québec, 75 ouest, boul. Dorchester, Montréal, Québec H2Z1A4, 514/289-2211 Joseph Bourbeau, président de conseil; Guy Coulombe, président et directeur général.*

New Brunswick Electric Power Commission, 527 King St., Fredericton, New Brunswick E3B 4X1, 506/453-4444, A. J. O'Connor, general manager.*

Nova Scotia Power Corp., Box 910, Barrington Tower, Scotia Square, Halifax, Nova Scotia B3J 2W5, 902/424-6230, L. R. Comeau, president.

Maritime Electric Co. Ltd., Box 1328, Charlottetown, Prince Edward Island C1A 7N2, 902/892-6531, J. H. Reynolds, president.

Newfoundland Light & Power Co. Ltd., Box 8910, Kenmount Road, St. John's, Newfoundland A1B 3P6, 709/737-5600, D. S. Templeton, president and general manager.

Newfoundland and Labrador Hydro, Box 9100, Philip Place, Elizabeth Square, St. John's, Newfoundland A1A 2X8, 709/737-1400, J. Henderson, vice-president, operations.

Canadian Electrical Association, Suite 580, 1 Westmount Square, Montréal, Québec H3Z 2P9, 514/937-6181, D. C. Campbell, general manager. ✸

** denotes APPA membership*

CABLE COMMUNICATION SYSTEMS

Publicly owned cable communication systems in cities or towns served by local publicly owned electric utilities are underlined.
When two numbers are listed under "Channels" the first is the number in use and the second is the number available.

Cable System by State	*Person in charge* *Phone*	*Year Started*	*Subscribers*	*Channels*	*Basic Monthly Rate*	*Utility Use*	*Structure*	*Financing*
ALABAMA								
Riviera Utilities 413 East Laurel Ave. Box 550 Foley 36536	H. Sewell St. John Jr. 205/943-5001	1982	1,334	20-35	$10.50	No	Separate function of utilities board	Retained earnings of utilities board
Lincoln Cable TV Box 172 Lincoln 35096	C.L. Watson 205/763-7777	1983	550	21	10.00	No	Separate department	City loan
Opp Cablevision Box 311 Opp 36467	Charles McGowan 205/493-4571	1967	2,771	10	6.00	No	Under utility department	City operating revenues
ARKANSAS								
Conway Corporation Box 99 Conway 72032	James H. Brewer 501/329-5641	1980	4,558	21	8.95	Load control, metering	Owned by city and leased to municipal Conway Corp.	Loan from utility department
CALIFORNIA*								
San Bruno Municipal Cable TV 567 El Camino Real San Bruno 94066	David A. Thomas 415/877-8889	1971	8,000	26	7.25	No	Separate department	Rebuild pending 1985
COLORADO*								
Center Municipal Cable System Box 400 Center 81125	Darrell T. Davis 303/754-3497	1984	339	18-54	6.00	Load control	Separate entity controlled by utility board	Loan from utility surplus to be paid back by cable department with interest.
Copper Mountain Metropolitan District Cable TV Box 3195 Copper Mountain 80443	Ray Bishop 303/968-2882 ext. 6440	1976	730	10	15.00	No (investigating)	Metropolitan District (similar to city government)	General obligation bonds
FLORIDA*								
City of Newberry City Hall Newberry 32669	LaRoy Paulson 904/472-2161	1974	562	12	6.00	No	Part of utility department	Utility's general fund
Valparaiso Communications System Box 296 44 Southview Ave. Valparaiso 32580	Thomas Miller 904/678-2922	1976	1,284	29	7.00		City agency providing: burglar, fire, assault alarm; well-monitoring; phase reversal; capacitor switching for Gulf Power Co.	
GEORGIA								
City of Covington CATV Covington 30209	Frank Turner 404/786-5324	1980	3,010	26	7.95	Air-conditioning load management planned	Separate cable department	City's general fund
City of Monroe Box 725 Monroe 30655	John T. Briscoe Jr. 404/267-5756	1972	3,124	36	4.00	Air-conditioning load management	Under utility department	Utility's general fund and local bank
ILLINOIS								
City of Madison Box 87 Madison 62060	Mike Macek 618/877-4854	1984	1,000 (est.)	No TV		Burglary, fire and emergency services	Separate alarm and cable department	City's general fund

IOWA

Cable System by State	Person in charge Phone	Year Started	Subscribers	Channels	Basic Monthly Rate	Utility Use	Structure	Financing
Coon Rapids Cable System 123 Third Avenue Box 207 Coon Rapids 50058	Eugene P. Smith 712/684-2225	1982	314	16	9.50	Investigating for load mgmt., & communications	Operated by utility; separate board for policy	Utility reserve funds
Hartley Municipal Cable System 169 South Central Ave. Hartley 51346	Dean Meyer 712/728-2240	1983	490	20	9.00	Maybe load management	Separate department	Loan from surplus electric funds
Manning Municipal Cable Board 719 Third St. Manning 51455	Gerald Beck 712/653-3214	1982	455	20-30	9.50	Load management in 1984.	Operated by separate board	Electric revenue bonds for load management; gas department surplus for the rest
Primghar Municipal Cable TV 741 16th St. Primghar 51245	Robert Mulder 712/757-2435	1981	275	21-36	8.50	No	Part of utility department	General obligation bonds
Community Cable Television Corporation City of Sanborn Sanborn 51248	Allen Bonderman 712/729-3974	1981	360	23-36	8.50	Load management/ air conditioners and water heaters	Corporation controlled by city	Utility funds and corporation revenue bonds

KANSAS

Cable System by State	Person in charge Phone	Year Started	Subscribers	Channels	Basic Monthly Rate	Utility Use	Structure	Financing
Americus City CATV Americus 66835	Mike Wooderson 316/443-5655	1976	275	9	12.00	No	Separate cable department	Revenue bonds
Arma Cablevision City of Arma Box 829 Arma 66712	Mavis Masterson 316/347-4125	1981	378	13-14	8.50	No	Separate cable department	Cable revenue bonds
Baxter Cable Vision City of Baxter Springs Box 577 Baxter Springs 66713	C. Michael Hall 316/856-2727	1980	1,125	12	8.50	No (weather alert)	City-owned, separate city dept.	Industrial revenue bonds
City of Cawker City Box 2 Cawker City 67430	Delbert Wallace 913/781-4713	1977	236	12	10.00	No	Separate department	Revenue bonds
Columbus Cablevision 300 East Maple Columbus 66725	Gail Houser 316/429-2159	1980	800	11	8.00	Emergency disaster warning	Separate city department	Revenue bonds
Marion Municipal Cable Vision City of Marion 203 N. 3rd Marion 66861	Joan Bowers 316/382-3703	1978	412	13	12.50	No	Separate department	General obligation bonds
City of Pawnee Rock Cable Television Utility Box 218 Pawnee Rock 67567	LaWanda Hendricks 316/982-4386	1983	100 (est.)	8	20.00	No	Separate city utility department	Cable revenue bonds
City of Waverly Box 308 Waverly 66871	Susan Gutsch 913/733-2461	1977	183	11	12.50	No	Separate city department	General obligation bonds

KENTUCKY

Cable System by State	Person in charge Phone	Year Started	Subscribers	Channels	Basic Monthly Rate	Utility Use	Structure	Financing
Community Service, Incorporated 325 Ann St. Frankfort 40601	Ben Fowler 502/227-7513	1952	9,051	19	3.50	No	Nonprofit corporation	City loan

MARYLAND

Cable System by State	Person in charge Phone	Year Started	Subscribers	Channels	Basic Monthly Rate	Utility Use	Structure	Financing
The Easton Utilities Commission 11 South Harrison St. Box 1189 Easton 21601	Roger Judd 301/822-6110	1984	2,000	36-64	8.00	Meter reading and load control planned	Owned by town, operated by separate dept. of utils. comm.	Short-term borrowing

Cable System by State	*Person in charge Phone*	*Year Started*	*Subscribers*	*Channels*	*Basic Monthly Rate*	*Utility Use*	*Structure*	*Financing*
MASSACHUSETTS*								
Shrewsbury's Electric Light Plant 100 Maple Ave. Shrewsbury 01545	James E. Baker 617/845-4881	1983	5,204	80	6.95	Energy management	Division of utility	General obligation bonds
MICHIGAN								
City of Crystal Falls 401 Superior Ave. Crystal Falls 49920	Walter E. Hagglund 906/875-6650	1959	800	10-21	4.50	No	Part of utility	Loan from city's general fund
City of Norway CATV Box 194 Norway 49870	Junior Stanchina 906/563-9641	1954	1,420	12	4.00	No	Part of utility	Utility general fund
Wyandotte Municipal Service 3005 Biddle Ave. Wyandotte 48192	Dale Simmons 313/282-7100 ext. 364	1982	6,131	52	8.00	Future use planned	Separate department within utility	Lease system from private investors with purchase agreement at a fixed date
MINNESOTA*								
Bagley City Cable TV Box M Bagley 56621	Bernie Stavig 218/694-2300	1976	534	12	7.65	No	Within utility department	Cable revenue bonds
City of Fosston Cable TV 220 First St., N.E. Fosston 56542	Russell Earls 218/435-1737	1976	570	12	6.75	Load management	Under utility	Cable revenue bonds
Jackson Municipal TV System 504 Second St. Jackson 56143	Curt Egeland 507/847-3225	1957	1,500	15	6.00		Separate dept.	Installation fees of original subscribers
City of Marble Box 38 Marble 55764	Alice Abrahamson 218/247-7147	1983	210	12	7.00		Part of city government	General fund
Windom Cable Communications System 444-9th St. Windom 56101	D.W. Nelson 507/831-2363	1984	1,000	23	9.95	Load control in 1985	Separate entity owned by city	Loan from utility commission
MISSOURI								
Newburg Cable TV System Drawer K Newburg 65550	Barbara Macormic 314/762-2315	1969	260	6	5.00	No	Operated through city hall	Borrowed from private development corporation
Unionville Cable Authority 1621 Grant St. Box 206 Unionville 63565	Larry C. Weston 816/947-3316	1980	760	11	9.50	No	Separate nonprofit board	Cable revenue bonds
OREGON*								
Cascade Locks CATV Box 308 Cascade Locks 97014	Ken Hobson 503/374-8484	1972	366	11	6.75	No	Separate department administered by council	Cable revenue bonds
Town of Lexington Lexington 97839	Mayor John Ripple 503/989-8125	1959	200	8	5.00			
PENNSYLVANIA								
New Wilmington Borough Cable TV 140 West Neshannock Ave. New Wilmington 16142	Ed Garrett 412/946-8167	1979	375	20	6.00	No	Separate department	General city fund
Pitcairn Community Antenna System 582 Sixth St. Pitcairn 15140	George Myers 412/372-6500	1953	1,000	17	5.00	No	Under light department	Installation fees of original subscribers. ($75.00)
SOUTH DAKOTA								
City of Beresford 101 North Third St. Beresford 57004	Wayne Akland 605/763-2500	1983	461	12-20	7.95			
WASHINGTON*								
City of Sumas TV Cable System Box 5, Cherry St. Sumas 98295	Lawrence Silvis 206/988-5711	1953	286	7	5.75	No		

Cable System by State	*Person in charge Phone*	*Year Started*	*Subscribers*	*Channels*	*Basic Monthly Rate*	*Utility Use*	*Structure*	*Financing*
North Bonneville Box 7 North Bonneville 98639	David A. Hussell 598/427-8182	1982	130	9-11	8.00		Part of utility department	Municipal reserves
WISCONSIN								
City of Oconto Falls 104 South Franklin St. Box 70 Oconto Falls 54154	George Barber 414/846-2911	1981	Now 500; plan 600	20-52	8.95	Maybe meter reading	Under utility commission	Bank loan backed by city

* *The following publicly owned utilities use privately owned cable systems for utility functions.* **Anaheim** *(Cal.) Pub. Utils. Dept. uses cable for the city's SCADA system and traffic signal interconnect facilities. Cynthia King, assist. to city mgr.; 714/999-5100.* **Palo Alto** *(Cal.) Elec. Util. uses cable for computerized traffic control. Bill Kubicki, principal elec. engr.; 415/329-2656.* **Longmont** *(Colo.) Elec. Util. uses cable for SCADA system which monitors and controls power network within the utility and schedules power generation. Jeff Gould, chief elec. engr.; 303/776-6050.* **Leesburg** *(Fla.) uses cable for weather forecasting and for its SCADA system. J.M. Tardugno, util. supt.; 904/787-4313.* **Richmond** *(Ind.) Power and Light has placed its weather radar video signal on the CATV system. Subscribers pay the utility $10 monthly to receive the picture. Irving Huffman, gen. mgr.; 317/935-3131.* **Rowley** *(Mass.) Mun. Lighting Plant is testing the economic, technical and operational feasibility of remote meter reading and billing of 100 meters. G. Robert Merry, mgr.; 617/948-3992.* **Benson** *(Minn.) uses cable for load management to control air conditioners, space heaters and water heaters. Edward J. Shukle Jr., city mgr.; 612/843-4775.* **Willmar**, *(Minn.) Mun. Utils. Comm. uses cable to control air conditioners, water heaters and downtown streetlighting. C. Ted Nelson, gen. mgr.; 612/235-4422.* **Lincoln** *(Neb.) Elec. System will test cable for load control, remote meter reading and SCADA. James L. Miller, mgr. of engr. ser.; 402/475-4211.* **Bath** *(N.Y.) Elec., Gas, & Water Systems uses cable for load shedding. W.N. Wrinkle; 607/776-3072.* **Wake Forest** *(N.C.) uses cable for informational purposes. Jerry Walters, town adm.; 919/556-2024.* **Forest Grove** *(Ore.) Light & Power Dept. uses cable for public information and education. Doug Sleeth, dir.; 503/357-7151.* **Cleveland** *(Tenn.) Utils. uses cable for weather information. Tom Wheeler; 615/472-4521.* **Chelan County** PUD, *Wenatchee, Wash., uses cable for communication purposes. Gerald Copp, mgr.; 509/663-8121.* **Seattle** *(Wash.) City Light uses its own cable system for communications and relay. Paul Croom; 206/625-3200.* **Tacoma** *(Wash.) Dept. of Pub. Utils. uses cable for utility information programs. James E. Thompson, supt.; 206/383-2471.*

THE ONE-STOP SOURCE FOR ALL YOUR SAFETY AND EQUIPMENT NEEDS

— Largest stock of hot line tools — High quality products — Nearly $2,000,000 in inventory
— Fast delivery from our conveniently located warehouses — Competitive pricing — Job tested — TOLL FREE NUMBER

Quality products from a company you can depend on

Linemen's Products • Hot Line Tools • Work Gloves • Safety Belts • Hand Tools • Aerial Lift Accessories • Rope • First Aid Products • Eye, Face and Head Protection • Hearing Protection • Respiratory Protection • Protective Clothing

ASPLUNDH
SAFETY EQUIPMENT COMPANY

Serving the utility industry with products and service for over 50 years

P.O. Box 507, 120 Keystone Rd., Montgomeryville, PA 18936
Toll Free 800-253-4500 In Pennsylvania call 215-628-0570

Write or call for free 88-page catalog.

ASPLUNDH
SAFETY EQUIPMENT COMPANY

APPA Electric Cooperative Members

TRI-STATE GEN. & TRANS. ASSN.
Box 33695, Denver, Colo. 80233
Daniel E. MacLeod, gen. mgr.
303/452-6111

LEE COUNTY ELECTRIC COOPERATIVE
Box 3455, N. Ft. Myers, Fla. 33903
James D. Sherfey, gen. mgr.
813/995-2121

SEMINOLE ELECTRIC COOPERATIVE INC.
Box 272000, Tampa, Fla. 33688
William Walbridge, gen. mgr.
815/963-0994

SOYLAND POWER COOPERATIVE
Box A1606, Decatur, Ill. 62525
E. H. Williams, gen. mgr.
217/423-8000

WOLVERINE POWER SUPPLY COOPERATIVE INC.
Box 369, Boyne City, Mich. 49712
Raymond Cristell, gen. mgr.
616/582-6572

GLACIER ELECTRIC COOPERATIVE INC.
Box 358, Cut Bank, Mont. 59427
David W. Chapman, mgr.
406/873-5566

BASIN ELECTRIC POWER COOPERATIVE
1717 E. Interstate Ave.
Bismarck, N.D. 58501
James L. Grahl, gen. mgr.
(Robert L. McPhail after Mar. 15)
701/223-0441

CENTRAL POWER ELECTRIC COOPERATIVE
Box 1576
Minot, N.D. 58701
Gary Williamson, gen. mgr.
701/852-4407

SALEM ELECTRIC COOPERATIVE
Box 5588, Salem, Ore. 97304
Jere Overs, gen. mgr.
503/362-3601

ALLEGHENY ELECTRIC COOPERATIVE INC.
Box 1266, Harrisburg, Pa. 17108
William F. Matson, exec. vice pres.
717/233-5704

EAST RIVER ELECTRIC POWER COOPERATIVE
Lock Drawer E, Madison, S.D. 57042
Loren Zingmark, gen. mgr.
605/256-4536

GARKANE POWER ASSOCIATION
Box 748, Richfield, Utah 84701
Glen P. Willardson, gen. mgr.
801/896-5403

VERMONT ELECTRIC COOPERATIVE INC.
School Street, Johnson, Vt. 05656
William J. Gallagher, exec. mgr.
802/635-2331

WASHINGTON ELECTRIC COOPERATIVE INC.
Box 8, East Montpelier, Vt. 05651
Robert Toombs, mgr.
802/223-5245

APPA Corporate Associate Members

ACRES AMERICA INC.
1000 Liberty Bldg.
424 Main St.
Buffalo, N.Y. 14202-3592
716/853-7525

ARNOLD & PORTER
1200 New Hampshire Ave. N.W.
Washington, D.C. 20036
202/872-6700

BEAR, STEARNS & CO.
55 Water St.
New York, N.Y. 10041
212/952-5740

BECHTEL ENERGY CORP.
15740 Shady Grove Rd.
Gaithersburg, Md. 20877
301/258-3000

BECHTEL POWER CORP.
Box 3965
San Francisco, Cal. 94104
415/768-1234

R. W. BECK & ASSOCIATES
Tower Building
7th Ave. at Olive Way
Seattle, Wash. 98101
206/622-5000

BLACK & VEATCH
Box 8405
Kansas City, Mo. 64114
913/967-2000

PAINE WEBBER INC.
1221 Ave. of the Americas—31st floor
New York, N.Y. 10020
212/730-8904

BURNS & McDONNELL
Box 173
Kansas City, Mo. 64141
816/333-4375

CH2M HILL, INC.
1500 114th Ave., S.E.
Bellevue, Wash. 98009
206/453-5000

CITIBANK, N.A.
55 Water St.
New York, N.Y. 10043
212/668-3731

CLEARY, GOTTLIEB, STEEN & HAMIL.
One State St. Plaza
New York, N.Y. 10004
212/344-0600

CROCKER NATIONAL BANK
111 Sutter St., Suite 626
San Francisco, Cal. 94104
415/983-2000

DEAN WITTER REYNOLDS INC.
130 Liberty St.
New York, N.Y. 10006
212/524-3639

DEBEVOISE & PLIMPTON
875 Third Ave.
New York, N.Y. 10022
212/909-6303

DILLON, READ & CO. INC.
535 Madison Ave.
New York, N.Y. 10022
212/906-7000

DONALDSON LUFKIN & JENRETTE
140 Broadway—49th Floor
New York, N.Y. 10005
212/902-2429

DONOVAN LEISURE NEWTON & IRVINE
30 Rockefeller Plaza
New York, N.Y. 10112
212/307-4118

DUNCAN, WEINBERG & MILLER
1775 Pennsylvania Ave., N.W.
Washington, D.C. 20006
202/467-6730

EBASCO SERVICES INC.
Two World Trade Center
New York, N.Y. 10048
212/839-2000

ELECTRIC POWER RESEARCH INSTITUTE
Box 10412
Palo Alto, CA 94303
415/855-2000

THE FIRST BOSTON CORP.
12 E. ~~49th St.~~, Tower 49
New York, N.Y. 10017
212/909-2921

GENERAL ELECTRIC CO.
1100 Western Ave.
Lynn, Mass. 01910
617/594-0100

GILBERT COMMONWEALTH
209 East Washington Ave.
Jackson, Mich. 49201
517/788-3000

GOLDMAN, SACHS & CO.
85 Broad St
New York, N.Y. 10004
212/902-1000

E. F. HUTTON & CO., INC.
7 Hanover Sq.
New York, N.Y. 10004
212/208-5419

JAMES LEFFEL & CO.
Box 1607
Springfield, Ohio 44501
513/323-6431

LUTZ, DAILY & BRAIN CONSULTING ENGINEERS
Box 718
Shawnee Mission, Kan. 66201
913/831-0833

THE C. T. MAIN CORP.
Prudential Center
Boston, Mass. 02199
617/262-3200

MERRILL LYNCH CAPITOL MARKETS
One Liberty Plaza
New York, N.Y. 10080
212/637-7455

MORGAN GUARANTY TRUST CO.
23 Wall St.
New York, N.Y. 10015
212/483-2323

MUDGE ROSE GUTHRIE ALEXANDER & FERDON
180 Maiden Lane
New York, N.Y. 10005
212/510-7512

JOHN NUVEEN & CO., INC.
3818 Bank of California Center
900 4th Ave.
Seattle, Wash. 98164
206/587-0959

PEAT, MARWICK, MITCHELL & CO.
1601 Elm St.
Dallas, Texas 75207
214/754-2000

PRUDENTIAL-BACHE SECURITIES
100 Gold St.
New York, N.Y. 10292
212/791-3685

SALOMON BROTHERS INC.
One New York Plaza
New York, N.Y. 10004
212/747-6135

SHEARSON LEHMAN/AMERICAN EXPRESS INC.
2 World Trade Center, 105th Floor
New York, N.Y. 10048
212/321-6837

SMITH BARNEY, HARRIS UPHAM & CO.
1345 Ave. of the Americas
New York, N.Y. 10105
212/399-6354

SPIEGEL & McDIARMID
1350 New York Avenue, N.W.
Washington, D.C. 20005-4798
202/879-4000

STANDARD & POORS CORP.
25 Broadway
New York, N.Y. 10004
212/248-7966

STANLEY CONSULTANTS INC.
Stanley Building
Muscatine, Iowa 52761
319/264-6423

STEARNS-CATALYTIC CORP.
Box 5888
Denver, Colo. 80217
303/692-2468

STONE & WEBSTER MANAGEMENT CONSULTANTS
One Penn Plaza, Box 1265
New York, N.Y. 10116
212/290-7190

UTILITY POWER CO.
Box 180
Bradenton, Fla. 33506
813/748-2000

U.S. DEPARTMENT OF ENERGY LIBRARY
1000 Independence Avenue S.W.
MA232.2/Forrestal Building
Washington, D.C. 20585
202/252-5000

VOLT ENERGY SYSTEMS INC.
Suite 201, 1100 E. Orangethorpe Ave.
Anaheim, Cal. 92801
714/758-0501

WESTINGHOUSE ELECTRIC CORP.
Westinghouse Bldg., Gateway Center
Pittsburgh, Pa. 15222
412/255-3800

WOOD DAWSON SMITH & HELLMAN
17 Battery Pl.
New York, N.Y. 10004
212/244-0450

APPA Individual Associate Members

Pentti J. Aalto
90 Newton Ave.
Braintree, Mass. 02184

Alvin R. Anderson
James M. Montgomery Consulting Engineers
624 North 300 West
Salt Lake City, Utah 84103

Thor L. Anderson
Sverdrup & Parcel & Associates Inc.
417 Montgomery St.
San Francisco, Cal. 94104
415/392-8927

Thomas K. Anson
Vinson & Elkins
1800 Interfirst Bank Tower
Austin, Texas 78701
512/478-2500

Craig Atwater
Moody's Investor Service
99 Church St.
New York, N.Y. 10007
212/553-0327

Elwood Barce
Speer Financial Inc.
55 E. Monroe, Suite 4510
Chicago, Ill. 60603
312/346-3700

Bruce F. Barnes Jr.
Barnes Henry Meisenheimer & Gende
4658 Gravois Ave.
St. Louis, Mo. 63116
314/352-8630

Robert F. Barrett
AMBAC Indemnity
1 State Street Plaza
New York, N.Y. 10004
212/668-0340

George Barsom
Environment Science & Engineering
Box ESE, Gainesville, Fla. 32602
904/332-3318

David L. Beller
Seattle Northwest Securities Corp.
3700 Seattle—First 5th Ave. Plaza
Seattle, Wash. 98104
206/628-2871

A. J. Belvedere
Colt Industries
701 Lawton Ave.
Beloit, Wis. 53511

Park Benjamin
Manufacturers Hanover Trust Co.
270 Park Ave., 4th Floor
New York, N.Y. 10017
212/286-2482

Arnold D. Berkeley
Arnold D. Berkeley Law Office
1925 K St. N.W., Suite 407
Washington, D.C. 20006
202/785-0611

James J. Berry
Smith & Gillespie Engrs.
Box 53138
Jacksonville, Fla. 32201
904/743-6950

Derek K. Best
AMT Inc.
2400 N.W. 39th Ave.
Miami, Fla. 33142

Paul Bjorn
Price Waterhouse
1900 Central National Bank Bldg.
Cleveland, Ohio 44114
216/781-3700

Richard J. Blumenfeld
Arthur Andersen & Co.
Spear St. Plaza, Suite 3600
San Francisco, Cal. 94105
415/546-8361

Jerry L. Bobo
Seattle Northwest Securities Corp.
3700 Seattle-First 5th Ave. Plaza
Seattle, Wash. 98104
206/628-2873

Gregory L. Booth
Booth & Associates Inc.
1011 Schaub Dr.
Raleigh, N.C. 27606

Carl Boronkay
Metropolitan Win Dist. of SCA
Box 54153, Terminal Annex
Los Angeles, Cal. 90054
213/250-6211

George C. Bornscheuer
Burns and Roe Inc.
1850 K St. N.W., Suite 220
Washington, D.C. 20006
202/659-2690

Kay Bowman
Network Computing Corp.
5301 77 Center Dr.
Charlotte, N.C. 28210
704/525-8810

Jene Bramel
Air Clean Damper Co.
Box 36162, Cincinnati, Ohio 45236
513/793-1253

William H. Burchette
Heron, Burchette et al
1025 Thomas Jefferson Ct.
Washington, D.C. 20006
202/775-9141

Alan A. Burgess
Arthur Andersen & Co.
133 Peachtree S[illegible] N.E. 2689
Atlanta, Ga. 30303
404/658-1776

Steven C. Butterworth
Bibb & Associates Inc.
Box 37, Shawnee Mission, Kan. 66201

William J. Callazzo
Terraqua Resources Corp.
200 N. Warner Rd., Suite 300
King of Prussia, Pa. 19406

Leonard M. Campbell
Grosuch Kirgis Campbell Walker & Grover
1200 American National Bank Bldg.
Denver, Colo. 80202

David E. Cardwell
Holland & Knight
Box Drawer BW
Lakeland, Fla. 33802
813/682-1161

J. Vincent Carey
Alpha Omega International Corp.
12919 Lake Ave.
Lakewood, Ohio 44107

F. R. Carpentier
United Engineers & Constrs. Inc.
Box 8223, Philadelphia, Pa. 19101
215/422-3000

Edward H. Chan
ECC Inc.
1530 The Alameda, Suite 300
San Jose, Cal. 95126

M. L. Chan, Vice President
ECC, Inc.
1530 The Alameda, Suite 300
San Jose, Cal. 95126
408/280-5494

Janjai Chayavadhanangkur
Southern Engineering Co.
1800 Peachtree St., N.W.
Atlanta, Ga. 30367

David K. Chodat
Chodat, Ruback & Associates
103 Central St., Box 749
Wellesley, Mass. 02181

Jim B. Clarke
Korn/Ferry International
1900 Ave. of the Stars, #1900
Los Angeles, Cal. 90067

Steve Clark
Boettcher and Co.
50 California St., Suite 3350
San Francisco, Cal. 94111

Warren R. Cobean Jr.
Burns & Roe Inc.
550 Kinderkamack Rd.
Oradell, N.J. 07649
201/265-2000

O. Wayne Corley
McNair Glenn Konduros Corley Singletary Porter & Dibble
Box 11390
Columbia, S.C. 29211
803/799-9800

Charles B. Crane
Marsh & McLennan Inc.
720 Olive Way
Seattle, Wash. 98101

George W. Cregg Sr.
Financing Consultant
932 Onondaga Rd.
Camillus, N.Y. 13031
315/468-1479

Thomas S. Currier
Dewey Ballantine Bushby Palmer & Wood
101 Park Ave., #4048
New York, N.Y. 10178

Alvin D. Curtis
Campbell, Deboe & Associates Inc.
3131 Executive Parkway
Toledo, Ohio 43606
419/531-2000

Russell E. Davis
Graybar Electric Co. Inc.
Box 7231
Clayton, Mo. 63177

William P. Davis
Network Computing Corp.
5301 77 Center Dr.
Charlotte, N.C. 28210
704/525-8810

Harry E. Davitian
Entek Research Inc.
11 Satterly Rd.
East Setauket, N.Y. 11733

Nancy M. Deprey
Union Mutual
2211 Congress St.
Portland, Maine 04105

C. Brooke Dormire
Dewey Ballantine Bushby Palmer & Wood
101 Park Ave.
New York, N.Y. 10178

Edmond R. Dougherty
Sperry-Univac
4210 Johnson Dr., Suite 200A
Shawnee Mission, Kan. 66205

Gerard T. Drumm
Bankers Trust Co./Pub. Finance
One Bankers Trust Plaza, 31st Floor
New York, N.Y. 10015
212/775-2445

C. Emerson Duncan II
Duncan, Allen and Mitchell
1575 Eye St. N.W.
Washington, D.C. 20005
202/289-8400

Richard J. Durofchalk
Coopers & Lybrand
1900 Three Mellon Plaza
Philadelphia, Pa. 19102
215/587-5000

Kenneth W. Duvall
Southern Electric International Inc.
3500 Piedmont Rd. N.E., #500
Atlanta, Ga. 30305
404/261-4700

Bruce L. Edwards
Henningston Durham & Richardson
1100 Eastlake Ave. East
Seattle, Wash. 98109

Robert L. Ehlers
Ehlers and Associates Inc.
507 Marquette Ave.
Minneapolis, Minn. 55402
612/339-8291

James C. Ellafrits
Arthur Andersen & Co.
300 S. College St.
Charlotte, N.C. 28282

Robert G. Emerson III
The First National Bank of Boston
100 Federal St.
Boston, Mass. 02110
617/434-8833

Dennis J. Enright
Thomson McKinnon Securities
1 New York Plaza
New York, N.Y. 10004

T. Brooke Farnsworth
Farnsworth & Martin, P.C.
333 North Belt, Suite 810
Houston, Texas 77060

Roger D. Feldman
Nixon Hargrove Devans & Doyle
1090 Vermont Ave. N.W., #1200
Washington, D.C. 20036
202/842-3600

Roland C. Fischer
Colorado River Water Cnsv. Dist.
Box 1120, Glenwood Springs, Colo. 81602

Walter W. Fishback
Hartford Steam Boiler Co.
One State St.
Hartford, Conn. 06102
203/722-5624

ASSOCIATE MEMBERS
(continued)

John E. Fisher
Lawson-Fisher Associates
525 W. Washington St.
South Bend, Ind. 46601

Michael A. Fitzgerald
Alexander & Alexander
60 State St.
Boston, MA 02109

Cliff Forsgren
Jas. Montgomery/Consul. Engrs.
250 North Madison Ave
Pasadena, Cal. 91101

J. A. V. Fry
Ford Beacon & Davis
Box 38209
Dallas, Texas 75238

Thomas Gamello
Prescott Ball & Turben
1 World Trade Center
New York, N.Y. 10048
212/938-7200

T. Michael Garrison
A. C. Kirkwood & Associates
8080 Ward Parkway, Suite 200
Kansas City, Mo. 64114
816/333-4477

Francis B. Garvey
Wertheim & Co., Inc.
200 Park Ave.
New York, N.Y. 10166
212/578-0735

T. R. Garwick
SAB Harmon Industries Inc.
Box 600, Grain Valley, Mo. 64029

Larry Gawlik
Daverman Associates Inc.
8920 Business Park Dr., #180
Austin, Texas 78759
512/346-2055

Ralph J. Gillis
Box 19, Weymouth, MA 02191
617/331-1235

Webb R. Gilmore
Gaar & Bell
State 1620 City Ctr. Sq.
1100 Main
Kansas City, Mo. 64105

Gerard Giordano
Leboeuf Lamb Leiby & Macrae
520 Madison Ave.
New York, N.Y. 10022
212/715-8000

Andrew C. Givens
Booth & Associates, Inc.
1011 Schaub Dr.
Raleigh, N.C. 27606

John J. Golian
Graybar Electric Company, Inc.
Box 7231, Clayton, Mo. 63177

Thomas E. Gould
Economic and Engineering
Box 4046, Bellevue, Wash. 98009

Duncan C. Gray
Kidder Peabody & Co. Inc.
10 Hanover Sq.
New York, N.Y. 10005
212/747-7960

Evan L. Griffith
Metropolitan Water District of S. California
Box 54153, Terminal Annex
Los Angeles, Cal. 90054

Robert M. Groh
SAB Harmon Industries, Inc.
Box 600, Grain Valley, Mo. 64029

J. H. Gruber
The Issue Scope Co.
Box 9739, Coral Springs, Fla. 32602

Arnold G. Grushkin
UOP Inc.
101 Merritt-7
Box 5440, Norwalk, Conn. 06856

C. H. Guernsey
National Foundation West Bldg.
3555 N.W. 58th
Oklahoma City, Okla. 73112
405/947-5515

Gary D. Gustafson
Nebraska Power Review Board
Box 94713, Lincoln, Neb. 68509
402/471-2301

Richard Y. Guthrie
American National Bank & Trust Co.
33 North La Salle St.
Chicago, Ill. 60690
312/661-6118

Jess L. Haley
Jess L. Haley and Associates
Box 369, Clarksdale, Miss. 38614

R. G. Haley
R. G. Haley Co. Inc.
Spitzer Bldg.
Toledo, Ohio 43604

J. C. Hall
First Southwest Co.
800 Mercantile Dallas Building
Dallas, Texas 75201
214/742-6461

Lloyd Harvego
Resource Mgmnt. International Inc.
1010 Hurley Way, Suite 500
Sacramento, Cal. 95825
916/924-1534

Carl Van Wye Hensley
L. F. Rothschild Unterberg Towbin
1 Penn Plaza, 46th Floor
New York, N.Y. 10119
212/279-2500

R. Eugene Herritz
Virchow Krause & Co.
Box 7398, Madison, Wis. 53707
608/249-6622

John Higley
Energy Management Associates Inc.
100 Northcreek, Suite 500
Atlanta, Ga. 30327
404/261-5256

Phillip H. Holm
50 South Main St., Suite 800
Salt Lake City, Utah 84144
801/533-0066

W. N. Holway
Benham-Holway Power Group
5314 South Yale, Park Towers
Tulsa, Okla. 74135
918/492-1600

Paul Hoppe
Brown Boveri Turbomachinery
711 Anderson Ave. North
St. Cloud, Minn. 56301

Sheldon K. Howard
Orr-Schelen-Mayeron & Associates
3435 Riverside Dr.
Beloit, Wis. 53511
608/362-0949

Jack D. Howe
Wheat First Securities Inc.
707 East Main St.
Richmond, Va. 23219
804/649-2311

Dale W. Imus
Desert Public Power Association Inc.
305 Sycamore Circle
Palm Springs, Cal. 92262

Norman P. Ingraham
SAI Engineers Inc.
3030 Patrick Henry Dr.
Santa Clara, Cal. 95054
408/727-6328

Donald F. Jackson
Box 721, Newport, Ore. 97365
503/867-3293

Hyland R. Johns
Asplundh Tree Expert Co.
Blair Mill Rd.
Willow Grove, Pa. 19090

T. A. Johnston
GA Technologies Inc.
Box 85068, San Diego, Cal. 92138

John C. Jones
Illman Jones, Inc.
5733 San Leandro St.
Oakland, Cal. 94621

Richard D. Jones
ZDC Inc.
2450 Central Ave., Suite C
Boulder, Colo. 80301
303/949-9949

Richard M. Jones
O'Melveny & Myers
400 South Hope St.
Los Angeles, Cal. 90071

Wayne Joyce
Joyce, Gray & Associates, Inc.
1225 West Main, Suite 236
Norman, Okla. 73069

Jack Kattner
Henningson Durham & Richardson
5401 Gamble Dr.
Minneapolis, Minn. 55416

John C. Keane
Cont. Illinois Nat. Bank & Trust
231 S. La Salle St. 5-C
Chicago, Ill. 60693
312/828-4362

Richard S. Kendall
Packard Press
475 Park Ave., S. 11th Floor
New York, N.Y. 10016

Peter J. Kenny
Willkie Farr & Gallagher
153 East 53rd St., One Citicorp
New York, N.Y. 10022

Thomas C. Kirkwood
A. C. Kirkwood & Associates
8080 Ward Parkway, Suite 200
Kansas City, Mo. 64114
816/333-4477

Peter Kissel
O'Connor & Hannan
1919 Penn. Ave., N.W. #800
Washington, D.C. 20006
202/887-1400

Peter Kissling
Sulzer Bros. Inc./Power Systems
200 Park Ave.
New York, N.Y. 10166

Lawrence M. Klepner
Applied Energy Technologies
11 East 44th St.
New York, N.Y. 10017

Louis H. Knapp
Cresap, McCormick & Paget
1875 Eye St. N.W., #650
Washington, D.C. 20006

William K. Kramer
Morrison & Foerster
333 S. Grand Ave., Suite 3800
Los Angeles, Cal. 90071
213/626-3800

Mitchell Kre[illegible]
Booz, Allen & Hamilton Inc.
4330 East-West Highway
Bethesda, Md. 20814
301/931-2200

John D. Kuhns
James J. Lowrey & Co. Inc.
110 Wall St.
New York, N.Y. 10005

Arthur H. Kuljian
The Kuljian Corp.
3700 Science Center
Philadelphia, Pa. 19104

Joseph C. Lane
First National Bank of Chicago
1 First National Plaza, #0363
Chicago, Ill. 60670

Merlin T. Lebakken
Power System Engineering Inc.
101 West Beltline Highway
Madison, Wis. 53713
608/251-3155

William M. Lewis Jr.
William M. Lewis Jr. & Assoc.
Box 1383, Portsmouth, Ohio 45662
614/354-3238

Robert D. Libbey
Multi Amp Corp.
4271 Bronze Way
Dallas, Texas 75237
214/333-3201

Susan M. Linden
Municipal Issuers Service Corp.
34 S. Broadway, Box 788
White Plains, N.Y. 10602
914/946-4242

Robert MacDonald
James J. Lowrey & Co. Inc.
110 Wall St., 27th Floor
New York, N.Y. 10005
212/363-2000

George M. Maddox
Electromotive Div., Gen. Motors
9301 W. 55th St.
La Grange, Ill. 60525
312/387-6385

Robert O. Marritz
Culp, Dwyer, Guterson & Grader
2700 One Union Sq.
Seattle, Wash. 98101

Frank Martin
Financial Consulting Services
155 West 68 St.
New York, N.Y. 10023

Vincent A. Matrone
Citibank
55 Water St., 47 Floor
New York, N.Y. 10041
212/668-3737

Donald H. Maynor
Two Palo Alto Square, Suite 220
Palo Alto, Cal. 94304

Robert L. McCarty
McCarty, Noone & Williams
490 L'Enfant Plaza E. #3206
Washington, D.C. 20024
202/554-2955

Joel Mesznik
Drexel Burnham Lambert Inc.
60 Broad St.
New York, N.Y. 10004
212/480-7810

Bertram Metzger Jr.
Houghton Cluck Coughlin Riley
1111 Third Ave., Suite 1500
Seattle, Wash. 98101

Richard J. Miller, Esq.
Alexander & Green
299 Park Ave.
New York, N.Y. 10171
212/758-6900

Richard R. Miller
Dain Bosworth, Inc.
527 Marquette Ave.
Minneapolis, Minn. 55402
612/371-2711

Robert P. Mitchell
Sherman & Howard
633 17th St.—2900 Intrawest
Denver, Colo. 80202

Griffith R. Morris
Kidder Peabody & Co., Inc.
10 Hanover Sq.
New York, N.Y. 10005
212/747-2380

James Morris
Deloitte Haskins & Sells
1200 Travis
Houston, Texas 77002

Gordon Mortin
Lex Jolley Inc.
300 William Oliver
Atlanta, Ga. 30303
404/525-1859

Stephen M. Moss
McGraw Hill Product
Information Network
1221 Ave. of the Americas
New York, N.Y. 10020
212/512-6104

Frank M. Mundo
Lehman Brothers Kuhn Loeb Inc.
55 Water St., 41st Floor
New York, N.Y. 10041
212/558-1695

Gerald L. Murdock
Mobil Coal Producing Inc.
Box 17772, Denver, Colo. 80217

John J. Murphy
Sorg Printing Co. of Illinois
650 West Washington Blvd.
Chicago, Ill. 60606

Sherman Naymark
Quadrex Corp.
1700 Dell AVe.
Campbell, Cal. 95008
408/866-4510

David Nermoe
Alexander & Alexander Inc.
60 State St.
Boston, Mass. 02109

Koichiro Nibun
The Tokyo Electric Power Co. Inc.
1901 L. St. N.W.
Washington, D.C. 20036
202/457-0790

G. Philip Nowak
Arnold & Porter
1200 New Hampshire Ave., N.W.
Washington, D.C. 20036
202/872-6807

Richard L. Olson
Boardman Suhr Curry & Field
Box 927, Madison, Wis. 53701-0927
608/257-9521

John E. Olsson
Olsson Associates
Suite 611, NBC Center
Lincoln, Neb. 68508

Richard Osann
Sorg Printing Co.
111 8th Ave.
New York, N.Y. 10011
202/741-6600

Glen Ortman
Verner, Liipfert, Bernhard & McPherson
1660 L St., N.W., #1000
Washington, D.C. 20036

Thomas M. Osborn
NUS Training Corp.
Box 669, Waretown, N.J. 08758
609/971-4738

James G. Pearce
Glaus Pyle Schomer Burns et al
345 White Pond Dr.
Akron, Ohio 44320

Robert Perry
Renaissance Printing Inc.
76 West Adams, Suite 1600
Detroit, Mich. 48226

John W. Pestle
Varnum, Riddering, Schmidt, Howlett
800 Mutual Home Building
Grand Rapids, Mich. 49503
616/459-4186

Michael S. Peters
Structural Metals Inc.
Box 911, Sequin, Texas 78155

Herbert R. Phelps
Phelps, Hogland & Phillips
6528 Raytown Rd., Suite B
Kansas City, Mo. 64133

J. J. M. Plante
Stone & Webster Engn. Corp.
Box 5406, Denver, Colo. 80217

Frank Pond
First Boston Corp.
1 Park Avenue Plaza
New York, N.Y. 10055
212/909-3554

Jeffrey L. Premo
Downes Associates Inc.
Rt. 6, Box 688, Delmar Rd.
Salisbury, Md. 21801
301/546-4422

Richard L. Preston
Scientific Atlanta Inc.
4300 N.E. Expwy., Box 105038
Atlanta, Ga. 30348
404/449-2000

Ken Prevatte
Sangamo Weston Inc.
Box 48400, Atlanta, Ga. 30362

Robert Prince
Financial Collection Agencies
80 W. Lancaster Ave., #300
Devon, Penn. 19333

R. David Ragle
Stock Equipment Co.
1422 E. Euclid Ave.
Cleveland, Ohio 44115

Ronald Rash
James M. Montgomery
624 North 300 West
Salt Lake City, Utah 84144

David S. Richey
225 West Main St.
Box 666, Lebanon, Ind. 46052

Robert F. Risch
Missouri Basin Systems Group
Box 2327, Estes Park, Colo. 80517

Frederick H. Ritts
Ely, Ritts, Brickfield and Betts
600 New Hampshire Ave., N.W.
Washington, D.C. 20037
202/342-0800

R. B. Robertson
Bovay Engineers Inc.
Box 15728, Baton Rouge, La. 70815
504/293-3661

Donald J. Robinson
Hawkins Delafield & Wood
67 Wall St.
New York, N.Y. 10005

A. Francis Robinson Jr.
Brown Wood Ivey Mitchell & Petty
One World Trade Center
New York, N.Y. 10048
212/839-5323

George I. Roen
Cresap, McCormick & Paget
595 Market St. #1200
San Francisco, Cal. 94105
415/781-8421

Marshall A. Rose
NTR Sales Co.
Box 134, Malibu, Cal. 90265

David Rose
James J. Lowrey & Co.
110 Wall St.
New York, N.Y. 10005

James B. Rosier
Daverman Associates/SP Group
500 South Salina, Suite 1212
Syracuse, N.Y. 13202

Ross L. Rumore
University Computing Co.
1930 Hi Line Dr.
Dallas, Texas 75207

John D. Ryan
Combustion Engineering Inc.
1000 Prospect Hill Rd.
Windsor, Conn. 06095
203/688-1911

Joseph Ryan
O'Melveny & Myers
400 S. Hope St.
Los Angeles, Cal. 90071
213/669-6000

Gary S. Saleba
Economic & Engineering Services, Inc.
Box 4046, Bellevue, Wash. 98009
206/451-8015

Nelson Schreiber
Pandick Press, Inc.
345 Hudson St.
New York, N.Y. 10014
212/741-5555

Philip Sherlock
Dames & Moore
1805 N. Westshore Blvd.
Suite 209
Tampa, Fla. 33607
813/875-8720

Robert L. Setzer
Robinson Humphrey/American Express
3333 Peachtree Rd., N.E.
Atlanta, Ga. 30326
404/266-6038

Charles D. Silberstein
Financial Guaranty Insurance
551 5th Ave.
New York, NY 10017

Donna M. Simonetti
First Albany Corp.
41 State St., Box 52
Albany, N.Y. 12201
518/436-9721

Damon D. Simpson
Gibbs & Hill, Inc.
1250 14th St., Suite 630
Denver, Colo. 80202

James P. Sletteland
Matthews & Wright, Inc.
14 Wall St.
New York, N.Y. 10005

Terri A. Smalinsky
First National Bank of Chicago
1 First National Plaza #0401
Chicago, Ill. 60670
312/732-6808

David L. Smith
Gaar & Bell
4620 City Ctr. Sq.
1100 Main
Kansas City, Mo. 64105

Douglas L. Smith
Planmetrics Inc.
666 5th Ave., Suite 3400
New York, N.Y. 10103

Gilbert B. Sorg
Sorg Printing Co.
111 8th Ave.
New York, N.Y. 10011
212/741-6600

Milford Sprecher
Arthur Young & Co.
1025 Connecticut Ave. N.W.
Washington, D.C. 20036

Wendy K. Stadnyk
MBIA
34 South Broadway
White Plains, N.Y. 10602

Thomas Stanton
Psychological Assoc.
8201 Maryland Ave.
St. Louis, Mo. 63105
314/862-9300

Dan T. Stathos
Deloitte Haskins & Sells
1400 Lincoln Plaza, LB#4

ASSOCIATE MEMBERS
(continued)

Dallas, Texas 75201
214/954-4500

Shelley Stein
AMBAC Indemnity
1 State Street Plaza
New York, N.Y. 10004
212/668-0340

Peter K. Sternad
Bank of America, #5164
555 South Flower St., 48th Fl.
Los Angeles, Cal. 90071
213/228-4244

Kurt J. Streule
DMC Energy, Inc.
31 Milk St.
Boston, Mass. 02109
617/357-0220

A. R. Stevens
Siemens-Allis
19675 W. Ten Mile Rd. #401
Southfield, Mich. 48075
313/352-6870

Robert H. Stevenson
Megatherm
803 Taunton Ave.
East Providence, R.I. 02914
401/438-3800

Norman A. Stoll
Stoll & Stoll
735 S.W. 1st Ave.
Portland, Ore. 97204

Joe A. Stoltz
Multi-Amp Services
4271 Bronze Way
Dallas, Texas 75237
214/333-3201

Z. Stanley Stys
Brown Boveri Corp.
1460 Livingston Ave.
North Brunswick, N.J. 08902

Ned Sullivan
First National Bank of Boston
HO-10-6, 100 Federal St.
Boston, Mass. 02110
617/434-7527

Glenn H. Sullivan
Benham-Holway Group
1 Benham Place, Box 20400
Oklahoma City, Okla. 73156

John S. Tamagni
Lazard Freres and Co.
1 Rockefeller Plaza
New York, N.Y. 10020
212/489-6600

J. Leroy Thilly
Boardman, Suhr, Curry Field
Box 927, Madison, Wis. 53701
608/257-9521

Robert D. Thorington
Johnson & Thorington
Drawer 1748, Montgomery, Ala.
36103, 205/834-6222

Philip L. Toia
Chase Manhattan Bank
1 Chase Manhattan Plz., 25th Floor
New York, N.Y. 10081

J. V. Tomai, III
Network Computing Corp.
5301 77 Center Drive, Suite 40
Charlotte, N.C. 28210

Martha Tuttle
L. F. Rothschild, Unterberg, Towbin
55 Water St.
New York, N.Y. 10041
212/425-2542

James B. Vasile
Newman and Holtzinger
1615 L St. N.W., Washington, D.C.
20036, 202/955-6600

Richard Vensas
Henningson Durham & Richardson
5401 Gamble Drive
Minneapolis, Minn. 55416

James J. Victory
Kvaerner Hydropower
9057 Soquel Dr.
Aptos, Cal. 95003
408/688-6464

Clinton Vince
Liipfert, Bernhard & McPherson
1660 L St. N.W., #1000
Washington, D.C. 20036
202/452-7400

L. E. Voss
Consulting Group—Lincoln
1055 Stuart Building
Lincoln, Neb. 68508
402/475-1511

Stephen Walker Jr.
Paterson, Walke & Pratt
Box 1310, Montpelier, Vt. 05602
802/229-5737

C. Richard Walker
Orrick, Herrington & Sutcliffe
600 Montgomery St.
San Francisco, Cal. 94111
415/392-1122

Edward Watson
City of Rochester
300 B City Hall
Rochester, N.Y. 14614
716/428-6855

Tom Watson
Crowell & Moring
1100 Connecticut Ave. N.W.
Washington, D.C. 20036
202/452-5843

Alan R. Watts
Rourke & Woodruff
1055 N. Main St., Suite 1020
Santa Ana, Cal. 92701
714/835-6212

Judson Werbelow
Dickinson, Wright, Moon, Van Dusen
& Freeman
215 So. Washington Sq., Suite 200
Lansing, Mich. 48933
517/371-1730

Lee C. White
White, Fine & Verville
1156 15th St. N.W. #302
Washington, D.C. 20005
202/659-2900

Vicki Whorten
Enercom/Equifax Services, Inc.
Box 4081, Atlanta, Ga. 30302

Raymond Whritenour
BBCWA
70 Kakeout Rd.
Butler, N.J. 07405

David C. Willer
Tudor Engineering Co.
149 New Montgomery St.
San Francisco, Cal. 94105

Christopher D. Williams
McCarty, Noone & Williams
490 L'Enfant Plaza E, Suite 3306
Washington, D.C. 20024
202/554-2955

W. J. Williams Jr.
Wright, Lindsey & Jennings
2200 Worthen Bank Building
Little Rock, Ark. 72201

J. L. Williamson
Kearney Div. of Kearney National
Box 49167, Atlanta, Ga. 30329

William C. Wise
1201 Conn. Ave. N.W., Suite 704
Washington, D.C. 20036
202/659-8931 ✷

PUBLIC POWER INDEX—1984

The index is arranged by author and subject. Books reviewed are alphabetized by title.

- Allen, Gerald
  - Seeking advice from customers. Sept.-Oct., p. 60.
- Allen, Raymond J.
  - On-site billing? It's great! Mar.-Apr., p. 19.
- Andersen, Stephen O.
  - How the roundtable works. Nov.-Dec., p. 13.
- Anderson, Karen
  - New Energy Services Exchange provides diverse assistance. Jan.-Feb., p. 14.
- Anthony, Tobias
  - Coal ash is an asset. Nov.-Dec., p. 21.
- Bentley, Alene F.
  - Public power regroups in Utah. Sept.-Oct., p. 25.
  - Varied background prepares McNeil. Sept.-Oct., p. 29.
- Bergman, Michael
  - Streetlights providing new challenges; energy savings. Mar.-Apr., p. 22.
  - Indoor air pollution. Sept.-Oct., p. 10.
- Biggs, Glenn
  - Effective governing boards. May-June, p. 26.
- Bruneel, Larry
  - Munis suited to lead comprehensive community economic development. May-June, p. 18.
- Cafruny, Madalyn
  - Send a message with your bill. Mar.-Apr., p. 14.
  - How public power systems communicate. July-Aug., p. 42.
  - Inside APPA. Nov.-Dec., p. 107.
- Canney, Walter A.
  - Natural gas vs heat pumps. July-Aug., p. 30.
- Caplan, Ruth
  - Building a common agenda. Nov.-Dec., p. 10.
- Christiano, David J.
  - Meet peak demand for $158 per kW. Nov.-Dec., p. 29.
- Clark, Toni
  - 18 fall courses—6 of them new—offered Sept.-Oct., p. 56.
- Coleman, Dan
  - Effective communications. Mar.-Apr., p. 42.
- Connelly, Joel
  - Effective communications. Mar.-Apr., p. 42.
- Dollard, Carol J.
  - Computers help conserve waste heat. Nov.-Dec., p. 25.
- Emslie, William A.
  - Computers help conserve waste heat. Nov.-Dec., p. 25.
- Galloway, Alfred C.
  - Effective governing boards. May-June, p. 26.
- Gerstle, May
  - Effective communications. Mar.-Apr., p. 42.
- Gillespie, John W.
  - Lessons learned in wake of WPPSS. May-June, p. 64.

Gorsuch, Dick
Ohio munis win better deal on power costs. Sept.-Oct., p. 18.
Guba, Richard
EPR insulation pays off in long run. May-June, p. 70.
Handel, Ted
Status of major public power issues before Congress and power agencies. Jan.-Feb., p. 29.
Harris, Carole C.
Telecommunications costs will soar. Mar.-Apr., p. 10.
Hobart, Larry
Munis suited to lead comprehensive community economic development. May-June, p. 18.
Howe, Richard S.
San Antonio maps its energy future. Jan.-Feb., p. 38.
Jones, Douglas N.
Should state commissions regulate municipal rates? July-Aug., p. 48.
Kelly, John M.
IOUs' tax records refute their claims. Sept.-Oct., p. 44.
Kilmer, Jeannie
Local systems budget $5.39 billion for 1984 plant work. Jan.-Feb., p. 42.
Public power contributes more to local governments than do IOUS. Mar.-Apr., p. 20.
Public power costs less. May-June, p. 52.
Knight, Priscilla
Inside APPA. Jan.-Feb., p. 59.
Inside APPA. Mar.-Apr., p. 89.
Inside APPA. May-June, p. 93.
Inside APPA. July-Aug., p. 79.
Inside APPA. Sept.-Oct., p. 79.
Koenen, Austin V.
Lessons learned in wake of WPPSS. May-June, p. 64.
LaBella, Jeanne Wickline
Preference issue dominates annual conference. July-Aug., p. 26.
Leber, Eric
Munis suited to lead comprehensive community economic development. May-June, p. 18.
Mathiason, Dennis
Indoor air pollution. Sept.-Oct., p. 10.
Superinsulation's robust future. Sept.-Oct., p. 14.
McCarthy, Gilbert
Effective governing boards. May-June, p. 26.
McKinley, Adriane
Effective governing boards. May-June, p. 26.
Muntz, A.J.
Jackson Project wins ecology award. Nov.-Dec., p. 14.
Painter, Jerry
Warm-water well cuts power costs. Jan.-Feb., p. 34.
Penn, David W.
Should state commissions regulate municipal rates? July-Aug., p. 48.
Peterson, Gary
Effective communications. Mar.-Apr., p. 42.
Punt, Curt
How to redesign rates. May-June, p. 32.
Radin, Alex
Outlook and insights: Public power's strategic goals. Jan.-Feb., p. 6.
Outlook and insights: Shared creativity. Mar.-Apr., p. 6.
Outlook and insights: Canadian interchanges beneficial. May-June, p. 6.
Outlook and insights: Preference principle endangered. July-Aug., p. 6.
Outlook and insights: Railroads gouge electric consumers, thanks to ICC. Sept.-Oct., p. 6.
Outlook and insights: Renewing old friendships. Nov.-Dec., p. 6.
Railan, Vikramaditya
EPR insulation pays off in long run. May-June, p. 70.
Reinemer, Vic
The other side: Public power is different. Jan.-Feb., p. 64.
The other side: What our readers say. Mar.-Apr., p. 92.
The other side: Access to transmission crucial. May-June, p. 84.
The other side: Freedom from competition. July-Aug., p. 80.
The other side: Solution of public power problems requires diverse approaches. Sept.-Oct., p. 80.
The other side: Capital budget approved; innovators raise questions. Nov.-Dec., p. 108.
Richardson, Alan H.
Halfway through the 98th Congress. Jan.-Feb., p. 18.
Smith, Enid
Switchover at last for Emerald PUD. Jan.-Feb., p. 10.
Soder, Jane
Seeking advice from customers. Sept.-Oct., p. 60.
Spruce, Jack K.
Maintain reliability at affordable rates, says Spruce. Sept.-Oct., p. 36.
Stafford, Jerry L.
Dreams and muscles made Santee Cooper. July-Aug., p. 36.
Stewart, Pamela O.
Guiding employees toward better health. May-June, p. 58.
Stockford, Chapman (Chip)
Transmission lines must be fairly shared. May-June, p. 10.
Tarbert, Jeffrey J.
Headline speakers slated for June APPA conference in Boston. Mar.-Apr., p. 38.
Effective governing boards. May-June, p. 26.
Public power salaries below those of IOUS, co-ops. Sept.-Oct., p. 30.
Verrips, Arie M.
Natural gas v. heat pumps. July-Aug., p. 30.
Woehrle, Lori
Chinese minihydro attracts California municipals. Mar.-Apr., p. 66.
Banking on home energy efficiency. May-June, p. 40.
Load management-there's more to consider. July-Aug., p. 10.
Eby juggles 7 hats. July-Aug., p. 58. ✱

Subjects

ACID RAIN
Inside APPA: Acid rain control legislation supported by L&R committee, by Priscilla Knight. Mar.-Apr., p. 89.
AIKEN, SEN. GEORGE
Achievement recognized (APPA awards). July-Aug., p. 16.
AIR POLLUTION
Indoor air pollution, by Michael K. Bergman and Dennis Mathiason. Sept.-Oct., p. 10.
AIR QUALITY CONTROL
Indoor air pollution, by Michael K. Bergman and Dennis Mathiason. Sept.-Oct., p. 10.
ALBEMARLE, N.C.
On-site billing? It's great! by Raymond I. Allen. Mar.-Apr., p. 19.
AMERICAN MUNICIPAL POWER-OHIO
Ohio munis win better deal on power costs, by Dick Gorsuch. Sept.-Oct., p. 18.
AMERICAN PUBLIC POWER ASSOCIATION see also:
ANNUAL CONFERENCE
ANNUAL REPORT
AWARDS, APPA
DEED
ENGINEERING & OPERATIONS WORKSHOP
INSIDE APPA
UTILITY EDUCATION COURSES
APPA annual report 1983. May-June, p. 45.
Inside APPA: 1983-84 membership year sets record, by Priscilla Knight. July-Aug., p. 79.
Inside APPA: New staff members join APPA, by Priscilla Knight. July-Aug., p. 79.
ANNUAL CONFERENCE (APPA)
Headline speakers slated for June APPA conference in Boston, by Jeff Tarbert. Mar.-Apr., p. 38.
Preference issue dominates annual conference, by Jeanne Wickline LaBella. July-Aug., p. 26.
ANNUAL REPORT
APPA annual report. May-June, p. 45.
ANNUAL REPORT CONTEST
Inside APPA: 14 utilities' annual reports win awards, by Madalyn Cafruny. Nov.-Dec., p. 107.
AUSTIN, TEXAS
Banking on home energy efficiency, by Lori Woehrle. May-June, p. 40.
Six energy innovators honored. July-Aug., p. 22.
AWARDS, APPA
Inside APPA: 67 electric systems receive APPA safety awards, by Priscilla Knight. May-June, p. 83.
Achievement recognized (APPA awards). July-Aug., p. 16.
Six energy innovators honored. July-Aug., p. 22.
Eby juggles 7 hats, by Lori Woehrle. July-Aug., p. 58.
BAKER, JAMES E.
Achievement recognized (APPA awards). July-Aug., p. 16.
BASIN ELECTRIC POWER COOPERATIVE ASSOCIATION
Fly ash market grows. July-Aug., p. 62.
BILLING
Send a message with your bill, by Madalyn Cafruny. Mar.-Apr., p. 14.
On-site billing? It's great! by Raymond I. Allen. Mar.-Apr., p. 19.
BONDS see:
FINANCING
MUNICIPAL BONDS
BRUSH, EARL

  - Achievement recognized (APPA awards). July-Aug., p. 16.
- BUDGETING
  - Local systems budget $5.39 billion for 1984 plant work, by Jeannie Kilmer. Jan.-Feb., p. 42.
- CABLES
  - EPR insulation pays off in long run, by Vikramaditya Railan and Richard A. Guba. May-June, p. 70.
- CAPITAL BUDGET
  - The other side, by Vic Reinemer. Nov.-Dec., p. 108.
- CANADA
  - Outlook and insights: Canadian interchanges beneficial, by Alex Radin. May-June, p. 6.
- CHINA
  - Chinese minihydro attracts California municipals, by Lori Woehrle. Mar.-Apr., p. 66.
- CITIZEN ADVISORY COMMITTEES
  - Seeking advice from customers, by Gerald Allen and Jane Soder. Sept.-Oct., p. 60.
- CLEVELAND, OHIO
  - Achievement recognized (APPA awards). July-Aug., p. 16.
- COAL see also:
  - RAILROADS
  - Outlook and insights: Railroads gouge electric consumers, thanks to ICC, by Alex Radin. Sept.-Oct., p. 6.
- COALITIONS
  - Building a common agenda, by Ruth Caplan. Nov.-Dec., p. 10.
  - How the roundtable works, by Stephen O. Andersen. Nov.-Dec., p. 13.
- COCKRELL, LILA
  - Achievement recognized (APPA awards). July-Aug., p. 16.
- COMMITTEES (APPA)
  - Inside APPA: Association committees reorganized, by Priscilla Knight. July-Aug., p. 79.
- COMMUNITY DEVELOPMENT
  - Munis suited to lead comprehensive community economic development, by Eric Leber, Larry Hobart and Larry Bruneel. May-June, p. 18.
- COMPETITION
  - Transmission lines must be fairly shared, by Chapman (Chip) Stockford. May-June, p. 10.
  - The other side: Freedom from competition, by Vic Reinemer. July-Aug., p. 80.
- COMPUTERS
  - Computers help conserve waste heat, by William A. Emslie and Carol J. Dollard. Nov.-Dec., p. 25.
- CONGRESS
  - Halfway through the 98th Congress, by Alan Richardson. Jan.-Feb., p. 18.
  - Status of major public power issues before Congress and power agencies, by Ted Handel. Jan.-Feb., p. 29.
- CONSERVATION see:
  - ENERGY AUDITS
  - ENERGY CONSERVATION
- CONSTRUCTION
  - Local systems budget $5.39 billion for 1984 plant work, by Jeannie Kilmer. Jan.-Feb., p. 42.
  - Lessons learned in wake of WPPSS, by Austin V. Koenen and John W. Gillespie. May-June, p. 64.
- CONSUMER PROGRAMS
  - Send a message with your bill, by Madalyn Cafruny. Mar.-Apr., p. 14.
- CONTESTS (APPA)
  - Wanted: pictures of public power projects and people. May-June, p. 36; July-Aug., p. 66; Sept.-Oct., p. 53.
- CORRECTIONS
  - Installed capacity of local public power systems, 1982. Mar.-Apr., p. 92.
  - Salary survey participants. Nov.-Dec., p. 108.
- DEED (DEMONSTRATION OF ENERGY EFFICIENT DEVELOPMENTS)
  - Outlook and insights: Shared creativity, by Alex Radin. Mar.-Apr., p. 6.
  - Inside APPA: APPA grants $76,000 for electric utility energy-efficient projects, by Priscilla Knight. Sept.-Oct., p. 79.
  - Inside APPA: DEED campaign underway, by Madalyn Cafruny. Nov.-Dec., p. 107.
- DIRECTORIES
  - PUBLIC POWER's annual directory. Jan.-Feb., p. D-1.
- DISTRIBUTION
  - Local systems budget $5.39 billion for 1984 plant work, by Jeannie Kilmer. Jan.-Feb., p. 42.
- EBY, RALPH
  - Achievement recognized (APPA awards). July-Aug., p. 16.
  - Eby juggles 7 hats, by Lori Woehrle. July-Aug., p. 58.
- ELECTRIC POWER SUPPLY AND DEMAND
  - Outlook and insights: Public power's strategic goals, by Alex Radin. Jan.-Feb., p. 6.
- EMERALD (ORE.) PUD
  - Switchover at last for Emerald PUD, by Enid Smith. Jan.-Feb., p. 10.
- EMPLOYEE BENEFITS
  - Guiding employees toward better health, by Pamela Stewart. May-June, p. 58.
- ENERGY AUDITS
  - Banking on home energy efficiency, by Lori Woehrle. May-June, p. 40.
- ENERGY CONSERVATION see also:
  - ENERGY AUDITS
  - INSULATION
  - Banking on home energy efficiency, by Lori Woehrle. May-June, p. 40.
  - Superinsulation's robust future, by Dennis Mathiason. Sept.-Oct., p. 14.
- ENERGY INNOVATION see also:
  - AWARDS, APPA
  - COMPUTERS
  - DEED
  - ENERGY SERVICES PLANNING
  - HYDRO PROJECTS
  - INSULATION
  - LOAD MANAGEMENT
  - New Energy Services Exchange provides diverse assistance, by Karen Anderson. Jan.-Feb., p. 14.
  - Outlook and insights: Shared creativity, by Alex Radin. Mar.-Apr., p. 6.
  - Inside APPA: Energy Innovator Award judges selected, by Priscilla Knight. Mar.-Apr., p. 89.
  - Munis suited to lead comprehensive community economic development, by Eric Leber, Larry Hobart and Larry Bruneel. May-June, p. 18.
  - Six energy innovators honored. July-Aug., p. 22.
  - Outlook and insights: Renewing old friendships, by Alex Radin. Nov.-Dec., p. 6.
  - Public Power Innovation. Nov.-Dec., p. 32.
  - The other side, by Vic Reinemer. Nov.-Dec., p. 108.
- ENERGY POLICY
  - Jackson Project wins ecology award, by A.J. Muntz. Nov.-Dec., p. 14.
- ENERGY SERVICES EXCHANGE
  - New Energy Services Exchange provides diverse assistance, by Karen Anderson. Jan.-Feb., p. 14.
  - Outlook and insights: Shared creativity, by Alex Radin. Mar.-Apr., p. 6.
  - How to redesign rates, by Curt Punt. May-June, p. 32.
- ENERGY SERVICES PLANNING
  - Munis suited to lead comprehensive community economic development, by Eric Leber, Larry Hobart and Larry Bruneel. May-June, p. 18.
- ENVIRONMENT see also:
  - ACID RAIN
  - AIR POLLUTION
  - Outlook and insights: Renewing old friendships, by Alex Radin. Nov.-Dec., p. 6.
  - Building a common agenda, by Ruth Caplan. Nov.-Dec., p. 10.
  - How the roundtable works, by Stephen O. Andersen. Nov.-Dec., p. 13.
  - Jackson Project wins ecology award, by A.J. Muntz. Nov.-Dec., p. 14.
- ENGINEERING AND OPERATIONS WORKSHOP
  - Inside APPA: Engineering & Operations Workshop in Toronto, March 27-29, by Priscilla Knight. Mar.-Apr., p. 89.
- EPHRATA, WASH.
  - Warm-water well cuts power costs, by Jerry Painter. Jan.-Feb., p. 34.
- EXUM, JOE H.
  - Achievement recognized (APPA awards). July-Aug., p. 16.
- FEDERAL ENERGY REGULATORY COMMISSION
  - Inside APPA: Court rehears appeal of FERC refusal to suspend rate, by Priscilla Knight. May-June, p. 83.
- FINANCING
  - Banking on home energy efficiency, by Lori Woehrle. May-June, p. 40.
  - Lessons learned in wake of WPPSS, by Austin V. Koenen and John W. Gillespie. May-June, p. 64.
- FLY ASH
  - Fly ash market grows. July-Aug., p. 62.
  - Coal ash is an asset, by Tobias Anthony. Nov.-Dec., p. 21.
- FORT COLLINS, COLO.
  - Achievement recognized (APPA awards). July-Aug., p. 16.
  - Six energy innovators honored. July-Aug., p. 22.
- GAS TURBINE
  - Meet peak demand for $158 per kW, by David J. Christiano. Nov.-Dec., p. 29.
- GEOTHERMAL ENERGY
  - Warm-water well cuts power costs, by Jerry Painter. Jan.-Feb., p. 34.
- GOVERNING BOARDS
  - Effective governing boards, by Jeff Tarbert, et al. May-June, p. 26.
- GRANT COUNTY (WASH.) PUD
  - Warm-water well cuts power costs, by Jerry Painter. Jan.-Feb., p. 34.
- HEALTH
  - Guiding employees toward better health, by Pamela Stewart. May-June, p. 58.
- HEAT PUMPS
  - Natural gas v. heat pumps, by Arie M. Verrips and Walter A. Canney. July-Aug., p. 30.
- HYDRO PROJECTS
  - The public preference in hydro relicensing. Mar.-Apr., p. 30.

  Chinese minihydro attracts California municipals, by Lori Woehrle. Mar.-Apr., p. 66.
HYDROELECTRIC POWER - LICENSING
  Inside APPA: 10 organizations protest relicensing bill, by Priscilla Knight. May-June, p. 83.
  Outlook and insights: Preference principle endangered, by Alex Radin. July-Aug., p. 6.
  Freedom from Competition, by Vic Reinemer, July-Aug., p. 80.
INSIDE APPA (column by Priscilla Knight or Madalyn Cafruny)
  Legislative workshop will be included in APPA winter meeting. Jan.-Feb., p. 59.
  Productivity workshop popular: more requested. Jan.-Feb., p. 59.
  APPA exchanges energy-efficiency information with foreign visitors. Jan.-Feb., p. 59.
  Acid rain control legislation supported by L&R committee. Mar.-Apr., p. 89.
  Energy Innovator Award judges selected. Mar.-Apr., p. 89.
  Engineering & Operations workshop in Toronto, March 27-29. Mar.-Apr., p. 89.
  Human Resources workshop in May. Mar.-Apr., p. 89.
  UEC course cover diverse topics. Mar.-Apr., p. 89.
  67 electric systems receive APPA safety awards. May-June, p. 83.
  Court rehears appeal of FERC refusal to suspend rate. May-June, p. 83.
  10 organizations protest relicensing bill. May-June, p. 83.
  APPA board approves preference campaign. July-Aug., p. 79.
  1983-84 membership year sets record. July-Aug., p. 79.
  Association committees reorganized. July-Aug., p. 79.
  New staff members join APPA. July-Aug., p. 79.
  New publications offered. July-Aug., p. 79.
  APPA grants $76,000 for electric utility energy efficient projects. Sept.-Oct., p. 79.
  New publications available on retail rate design and energy services programs. Sept.-Oct., p. 79.
  98th Congress a mixed bag for public power. Nov.-Dec., p. 107.
  DEED campaign underway. Nov.-Dec., p. 107.
  14 utilities' annual reports win awards. Nov.-Dec., p. 107.
INNOVATION see ENERGY INNOVATION
INSULATION
  Superinsulation's robust future, by Dennis Mathiason. Sept.-Oct., p. 14.
INTERCONNECTION
  Outlook and insights: Canadian interchanges beneficial, by Alex Radin. May-June, p. 6.
INTERMOUNTAIN CONSUMER POWER ASSOCIATION
  Varied background prepares McNeil, by Alene E. Bentley. Sept.-Oct., p. 29.
INTERNATIONAL EXCHANGE PROGRAMS
  Inside APPA: APPA exchanges energy efficiency information with foreign visitors, by Priscilla Knight. Jan.-Feb., p. 59.
JACKSON, SEN. HENRY M.
  Jackson Project wins ecology award, by A.J. Muntz. Nov.-Dec., p. 14.
JOINT ACTION
  Public power bond issues up 5 percent. Mar.-Apr., p. 70.
  Ohio munis win better deal on power costs, by Dick Gorsuch. Sept.-Oct., p. 18.
LEGISLATION
  Inside APPA: 98th Congress a mixed bag for public power, by Madalyn Cafruny. Nov.-Dec., p. 107.
LIVINGSTON, MONT.
  Six energy innovators honored. July-Aug., p. 22.
LOAD MANAGEMENT
  Load management—there's more to consider, by Lori Woehrle. July-Aug., p. 10.
MCNEIL, CAROLYN S.
  Varied background prepares McNeil, by Alene E. Bentley. Sept.-Oct., p. 29
MEDIA
  Effective communications, by Dan C. Coleman, Joel Connelly, Gary Peterson, and May Gerstle. Mar.-Apr., p. 42.
MEETINGS (APPA)
  Inside APPA: Legislative workshop will be included in APPA winter meeting, by Priscilla Knight. Jan.-Feb., p. 59.
METER READING
  On-site billing? It's great! by Raymond I. Allen. Mar.-Apr., p. 19.
MISSOURI BASIN POWER PROJECT
  Load management-there's more to consider, by Lori Woehrle. July-Aug., p. 10.
MUNICIPAL BONDS
  Public power bonds up 5 percent. Mar.-Apr., p. 70.
MUNICIPALLY OWNED UTILITIES
  Switchover at last for Emerald PUD, by Enid Smith. Jan.-Feb., p. 64.
  The other side: Public power is different, by Vic Reinemer. Jan.-Feb., p. 64.
  Public power costs less, by Jeannie Kilmer. May-June, p. 52.
  Ohio munis win better deal on power costs, by Dick Gorsuch. Sept.-Oct., p. 18.
  The other side: Solution of public power problems requires diverse approaches, by Vic Reinemer. Sept.-Oct., p. 80.
NASHVILLE, TENN.
  Six energy innovators honored. July-Aug., p. 22.
NATURAL GAS
  Natural gas v. heat pumps, by Arie M. Verrips and Walter A. Canney. July-Aug., p. 30.
NOVA SCOTIA
  Tidal power plant begins operation in Nova Scotia. Nov.-Dec., p. 99.
OHIO MUNICIPAL ELECTRIC ASSOCIATION
  Ohio munis win better deal on power costs, by Dick Gorsuch. Sept.-Oct., p. 18.
PACIFIC POWER & LIGHT
  Switchover at last for Emerald PUD, by Enid Smith. Jan.-Feb., p. 10.
PALO ALTO, CAL.
  Six energy innovators honored. July-Aug., p. 22.
PAYMENTS IN LIEU OF TAXES
  Public power contributes more to local governments than do IOUS, by Jeannie Kilmer. Mar.-Apr., p. 20.
PERSONNEL see also:
    SALARIES
    UTILITY EDUCATION COURSES
  Inside APPA: Human Resources workshop in May, by Priscilla Knight. Mar.-Apr., p. 89.
PHOTOGRAPHS
  Wanted: pictures of public power projects and people. May-June, p. 36; July-Aug., p. 66; Sept.-Oct., p. 53.
POLITICAL ACTION COMMITTEES
  Inside APPA: PowerPAC will honor congressional representatives who support public power, by Priscilla Knight. Jan.-Feb., p. 59.
PRIVATE POWER COMPANIES
  IOUs' tax records refute their claims, by John Kelly. Sept.-Oct., p. 44.
PREFERENCE
  The public preference in hydro relicensing. Mar.-Apr., p. 30.
  Inside APPA: 10 organizations protest relicensing bill, by Priscilla Knight. May-June, p. 83.
  Outlook and insights: Preference principle endangered, by Alex Radin. July-Aug., p. 6.
  Preference issue dominates annual conference, by Jeanne Wickline LaBella. July-Aug., p. 26.
  Inside APPA: APPA board approves preference campaign, by Priscilla Knight. July-Aug., p. 79.
  The Other Side: Freedom from competition, by Vic Reinemer, July-Aug., p. 80.
  Public power regroups in Utah, by Alene E. Bentley. Sept.-Oct., p. 25.
  Inside APPA: New pamphlet deals with preference, by Madalyn Cafruny. Nov.-Dec., p. 107.
PUBLIC POWER
  The other side: Public power is different, by Vic Reinemer. Jan.-Feb., p. 64.
PUBLIC POWER MAGAZINE
  The other side: What our readers say, by Vic Reinemer. Mar.-Apr., p. 92.
PUBLIC RELATIONS
  Send a message with your bill, by Madalyn Cafruny. Mar.-Apr., p. 14.
  Effective communications, by Dan C. Coleman, Joel Connelly, Gary Peterson and May Gerstle. Mar.-Apr., p. 42.
  How public power systems communicate, by Madalyn Cafruny. July-Aug., p. 42.
  Seeking advice from customers, by Gerald Allen and Jane Soder. Sept.-Oct., p. 60.
PUBLIC UTILITY COMMISSIONS
  Should state commissions regulate municipal rates? by Douglas N. Jones and David W. Penn. July-Aug., p. 48.
PUBLICATIONS (APPA)
  Inside APPA: New publications offered, by Priscilla Knight. July-Aug., p. 79.
  Inside APPA: new publications available on retail rate design and energy services programs, by Priscilla Knight. Sept.-Oct., p. 79.
  Inside APPA: New pamphlet deals with preference, by Madalyn Cafruny. Nov.-Dec., p. 107.
RAILROADS
  Outlook and insights: Railroads gouge electric consumers, thanks to ICC, by Alex Radin. Sept.-Oct., p. 6.
RATES (ELECTRIC)
  How to redesign rates, by Curt Punt. May-June, p. 32.
  Public power costs less, by Jeannie Kilmer. May-June, p. 52.
  Inside APPA: Court rehears appeal of FERC refusal to suspend rate, by Priscilla Knight. May-June, p. 83.
  Seeking advice from customers, by Gerald Allen and Jane Soder. Sept.-Oct., p. 60.
REGULATION
  Should state commissions regulate municipal rates? by Douglas N. Jones and David W. Penn. July-Aug., p. 48.
SACRAMENTO, CAL.
  Chinese minihydro attracts California municipals, by Lori Woehrle. Mar.-Apr., p. 66.
  Guiding employees toward better health, by

Pamela Stewart. May-June, p. 58.
Six energy innovators honored. July-Aug., p. 22.
SAFETY
Inside APPA: 67 electric systems receive APPA safety awards, by Priscilla Knight. May-June, p. 83.
SALARIES
Public power salaries below those of IOUs, co-ops, by Jeff Tarbert. Sept.-Oct., p. 30.
SAN ANTONIO, TEXAS
San Antonio maps its energy future, by Richard S. Howe. Jan.-Feb., p. 38.
SANTEE COOPER HYDROELECTRIC PROJECT
Dreams and muscles made Santee Cooper, by Jerry L. Stafford. July-Aug., p. 36.
SEATTLE, WASH.
Seeking advice from customers, by Gerald Allen and Jane Soder. Sept.-Oct., p. 60.
SKELTON, GERALD
Achievement recognized (APPA awards). July-Aug., p. 16.
SOUTH CAROLINA PUBLIC SERVICE AUTHORITY
Dreams and muscles made Santee Cooper, by Jerry L. Stafford. July-Aug., p. 36.
STRATEGIC PLANNING FOR UTILITIES
Outlook and insights: Public power's strategic goals, by Alex Radin. Jan.-Feb., p. 6.
San Antonio maps its energy future, by Richard S. Howe. Jan.-Feb., p. 38.
STREETLIGHTING
Streetlights providing new challenges, energy savings, by Michael K. Bergman. Mar.-Apr., p. 22.
SURVEYS
Local systems budget $5.39 billion for 1984 plant work, by Jeannie Kilmer. Jan.-Feb., p. 42.
The other side: What our readers say, by Vic Reinemer. Mar.-Apr., p. 92.
How public power systems communicate, by Madalyn Cafruny. July-Aug., p. 42.
Public power salaries below those of IOUs, co-ops, by Jeff Tarbert. Sept.-Oct., p. 30.
TAXES
Public power contributes more to local governments than do IOUs, by Jeannie Kilmer. Mar.-Apr., p. 20.
IOUs' tax records refute their claims, by John Kelly. Sept.-Oct., p. 44.
TELECOMMUNICATIONS
Telecommunications costs will soar, by Carole C. Harris. Mar.-Apr., p. 10.
TIDAL POWER
Tidal power plant begins operation in Nova Scotia. Nov.-Dec., p. 99.
TRANSMISSION
Local systems budget $5.39 billion for 1984 plant work, by Jeannie Kilmer. Jan.-Feb., p. 42.
Transmission lines must be fairly shared, by Chapman (Chip) Stockford. May-June, p. 10.
The other side: Access to transmission crucial, by Vic Reinemer. May-June, p. 84.
UTAH POWER & LIGHT
Public power regroups in Utah, by Alene E. Bentley. Sept.-Oct., p. 25.
UTILITY EDUCATION COURSES
Inside APPA: Productivity workshop popular: more requested, by Priscilla Knight. Jan.-Feb., p. 59.
Inside APPA: UEC courses cover diverse topics, by Priscilla Knight. Mar.-Apr., p. 89.
18 fall courses—6 of them new—offered, by Toni Clark. Sept.-Oct., p. 56.
WALBRIDGE, WILLIAM
Achievement recognized (APPA awards). July-Aug., p. 16.
WASHINGTON PUBLIC POWER SUPPLY SYSTEM
Lessons learned in wake of WPPSS, by Austin V. Koenen and John W. Gillespie. May-June, p. 64.
WASTE HEAT
Computers help conserve waste heat, by William A. Emslie and Carol J. Dollard. Nov.-Dec., p. 25.
WEST POINT, NEB.
Eby juggles 7 hats, by Lori Woehrle. July-Aug., p. 58.
WESTERN AREA POWER ADMINISTRATION
Public power regroups in Utah, by Alene E. Bentley. Sept.-Oct., p. 25.
WHOLESALE POWER CONTRACTS
Inside APPA: Court rehears appeal of FERC refusal to suspend rate, by Priscilla Knight. May-June, p. 83.
Ohio munis win better deal on power costs, by Dick Gorsuch. Sept.-Oct., p. 18. ✸

BOOK REVIEWS

ABOUT HOME ENERGY AUDITS; ABOUT ELECTRIC UTILITY CAREERS, by Channing L. Bete Co. Jan.-Feb., p. 60.
ACID RAIN INFORMATION BOOK, edited by David V. Bubenik. May-June, p. 80.
THE COMPETITIVE ECONOMICS OF NUCLEAR AND COAL POWER, by Richard Hellman and Caroline J.C. Hellman. Mar.-Apr., p. 87.
DECENTRALIZING ELECTRICITY PRODUCTION, edited by Howard J. Brown with Tom Richard Strumolo. May-June, p. 80.
ENERGY ECONOMICS, DEMAND MANAGEMENT AND CONSERVATION POLICY, by Mohan Munasinghe and Gunter Schramm. Jan.-Feb., p. 60.
ENERGY HANDBOOK, by Robert L. Loftness. Sept.-Oct., p. 76.
ENGINEERS AND ELECTRONS, by John D. Ryder and Donald G. Fink. Sept.-Oct., p. 76.
FACILITY SITING AND PUBLIC OPPOSITION, by Michael O'Hare, Lawrence Bacow and Debra Sanderson. July-Aug., p. 76.
FEAR AT WORK: JOB BLACKMAIL, LABOR AND THE ENVIRONMENT, by Richard Kazis and Richard L. Grossman. Mar.-Apr., p. 88.
GENERATING ENERGY ALTERNATIVES: CONSERVATION, LOAD MANAGEMENT, RENEWABLE ENERGY, by Douglas Cogan and Susan Williams. May-June, p. 80.
HANDBOOK OF ENGINEERING ECONOMICS: GUIDE FOR ENGINEERS, SCIENTISTS, AND MANAGERS, by Max Kurtz. July-Aug., p. 76.
HIGH-SULFUR COAL EXPORTS: AN INTERNATIONAL ANALYSIS, edited by Michael M. Crow. Jan.-Feb., p. 60.
LOOKING FORWARD: PLANNING AMERICA'S FUTURE, by Charles Hatch Stoddard. Mar.-Apr., p. 87.
MAKING THE SUN WORK FOR YOU: SOLAR ELECTRICITY FROM PHOTOVOLTAICS, by the staff of Monegon, Ltd., p. 76.
MCGRAW-HILL DICTIONARY OF SCIENCE AND ENGINEERING, edited by Sybil P. Parker. Nov.-Dec., p. 105.
MCGRAW-HILL'S NATIONAL ELECTRICAL CODE® HANDBOOK, by Joseph F. McPartland. Nov.-Dec., p. 105.
THE MOST ENERGY-EFFICIENT APPLIANCES, by American Council for an Energy-Efficient Economy. Nov.-Dec., p. 105.
NETWORKS OF POWER: ELECTRIFICATION IN WESTERN SOCIETY—1880-1930, by Thomas P. Hughes. Mar.-Apr., p. 87.
THE NEXT NUCLEAR GAMBLE: TRANSPORTATION AND STORAGE OF NUCLEAR WASTE, by Marvin Resnikoff. Mar.-Apr., p. 88.
POWER SYSTEM OPERATION, by Robert H. Miller. Jan.-Feb., p. 60.
THE PRODUCT SAFETY BOOK: THE ULTIMATE CONSUMER GUIDE TO PRODUCT HAZARDS, by Stephen Brobeck and Anne C. Avery. Nov.-Dec., p. 105.
SELECTING ENERGY SERVICE PROGRAMS FOR RESIDENTIAL CUSTOMERS, by APPA. Jan.-Feb., p. 60.
SMALL AND MINI HYDROPOWER SYSTEMS: RESOURCES ASSESSMENT AND PROJECT FEASIBILITY, edited by Jack J. Fritz. July-Aug., p. 76.
THE SOLAR ENERGY DIRECTORY, edited by Sandra Oddo, Martin McPhillips and Richard Gottlieb. Nov.-Dec., p. 105.
STATE OF THE WORLD 1984: A WORLD-WATCH INSTITUTE REPORT ON PROGRESS TOWARD A SUSTAINABLE SOCIETY, by Lester R. Brown et al. May-June, p. 80.
SWORDS AND SHIELDS: AN ANTITRUST HANDBOOK FOR MUNICIPAL AND COOPERATIVE UTILITIES, by Jeffrey Howard and Carlos Smith. Sept.-Oct., p. 76.
TVA: FIFTY YEARS OF GRASS-ROOTS BUREAUCRACY, edited by Erwin C. Hargrove and Paul K. Conkin. July-Aug., p. 76.
UNCERTAIN POWER: THE STRUGGLE FOR A NATIONAL ENERGY POLICY, edited by Dorothy S. Zinberg. Mar.-Apr., p. 87. ✸

Local Systems Budget $5.65 Billion for 1985 Plant Work

by JEANNIE KILMER

contributing editor, PUBLIC POWER, *and* APPA *manager of statistics and data processing*

THE NATION'S LOCAL PUBLICLY OWNED electric utilities are budgeting $5.65 billion for new plant additions and improvements in 1985 — a decrease of 2.3 percent from the $5.78 billion they reported spending last year.

Spending for total generation is estimated to decline 12.2 percent in 1985, due to decreased spending on coal, nuclear and hydro generation. Total transmission and distribution spending, including substations, conservation and load management, is estimated to increase 13.4 percent over 1984.

A year ago, in PUBLIC POWER's annual survey of spending plans, the local public power systems indicated they expected to spend about $5.4 billion. The difference between projected and actual 1984 expenditures is largely due to nuclear expenditures. The systems reported spending $1.65 million on nuclear generation in 1984, instead of the $1.13 million forecast in 1983.

The PUBLIC POWER spending figures are for municipal electric utilities and other local publicly owned systems and do not include federal power agencies, rural electric cooperatives or private power companies.

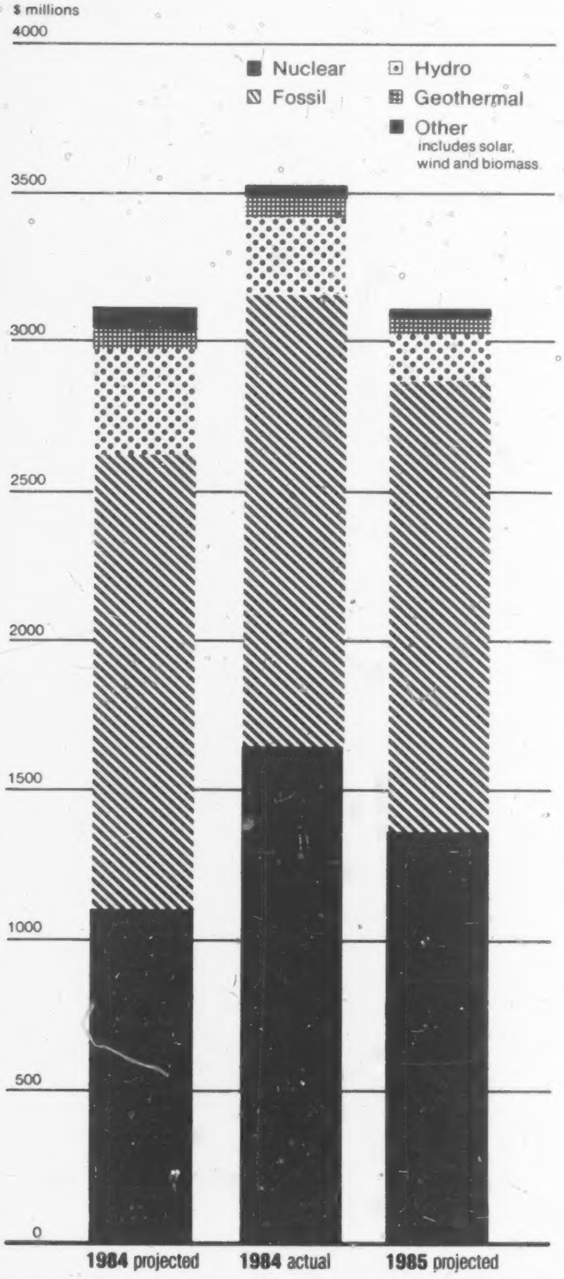
PUBLIC POWER's survey of spending plans includes reports from hundreds of municipal and other local publicly owned electric utilities, estimated to represent 66 percent of the total local public power segment of the electric utility industry on the basis of number of customers served. The reports have been projected to cover all local publicly owned systems. ✱

LOCAL PUBLIC POWER SYSTEM SPENDING, 1984-85

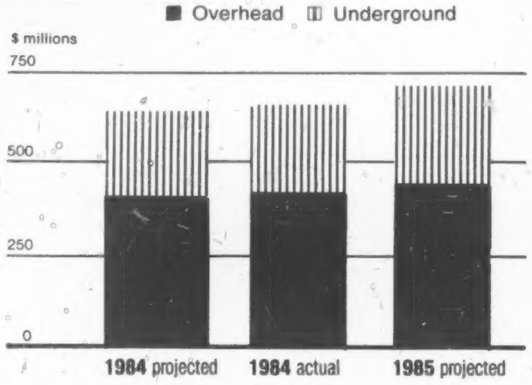
	1984 *Projected*	1984 *Actual*	1985 *Projected*	1984-1985 *% Change*
Distribution				
Overhead below 33 kV	$ 405,349,936	$ 416,015,322	$ 448,619,532	7.8
Underground below 33 kV	234,937,549	234,824,342	265,910,582	13.2
Total Distribution	640,287,485	650,839,664	714,530,114	9.8
Transmission				
Overhead above 33 kV	1,033,220,516	861,224,252	991,207,808	15.1
Underground above 33 kV	27,874,286	77,668,552	67,279,083	-13.4
Total Transmission	1,061,094,802	938,892,804	1,058,486,891	12.7
Conservation & Load Management	71,447,623	54,528,286	53,655,589	-1.6
Substations	329,990,604	329,124,023	426,246,979	29.5
Other T&D	165,282,854	262,642,755	283,732,339	8.0
Total T&D	2,268,103,368	2,236,027,532	2,536,651,912	13.4
Generation				
Steam: Coal	1,403,085,423	1,342,167,717	1,242,798,743	-7.4
Oil	58,096,603	59,315,561	61,529,606	3.7
Gas	14,525,121	38,545,258	40,084,015	4.0
Nuclear	1,130,989,779	1,653,642,540	1,357,849,321	-17.9
Biomass	32,764,000	3,326,400	30,917,000	829.4
Total	2,639,460,926	3,096,997,476	2,733,178,685	-11.7
Engine: Oil-Fired	4,977,811	9,454,294	12,185,967	28.9
Gas-Fired	6,174	0	500,000	—
Dual-Fired	14,067,994	1,212,188	20,608,773	1600.1
Gas Turbine	7,110,000	65,610,920	75,380,138	14.9
Combined Cycle	16,875,009	4,813,000	11,650,000	142.1
Hydro	357,118,145	269,189,918	172,547,824	-35.9
Geothermal	60,207,300	88,707,571	70,404,818	-20.6
Cogeneration		1,100,000	4,691,340	326.5
Active Solar		68,500	3,561,900	5,099.9
Other	22,410,059	3,269,500	4,555,000	39.3
Total Generation	3,122,233,418	3,540,423,367	3,109,264,445	-12.2
GRAND TOTAL	5,390,336,786	5,776,450,899	5,645,916,357	-2.3

Local Public Systems Plant Additions and Improvements

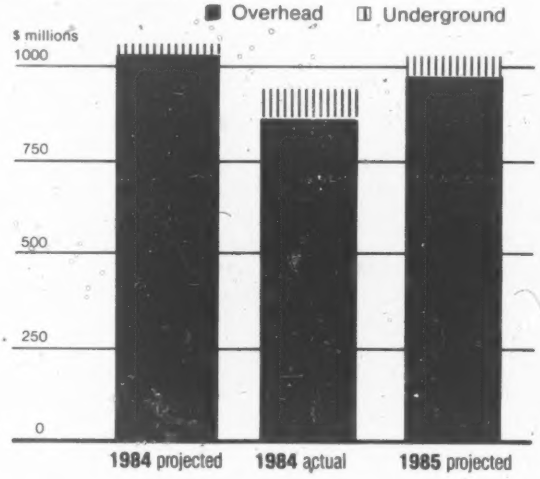
Generation



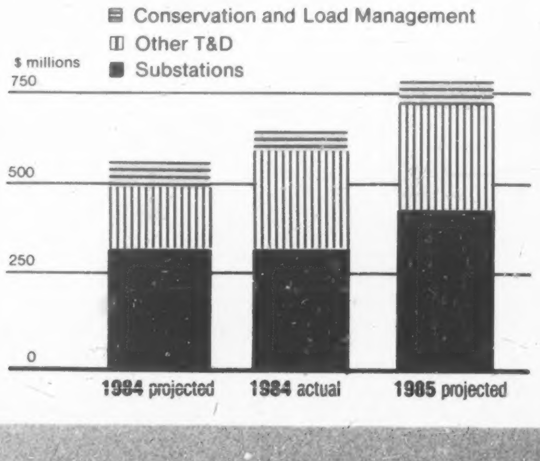
Distribution below 33kv



Transmission above 33kv



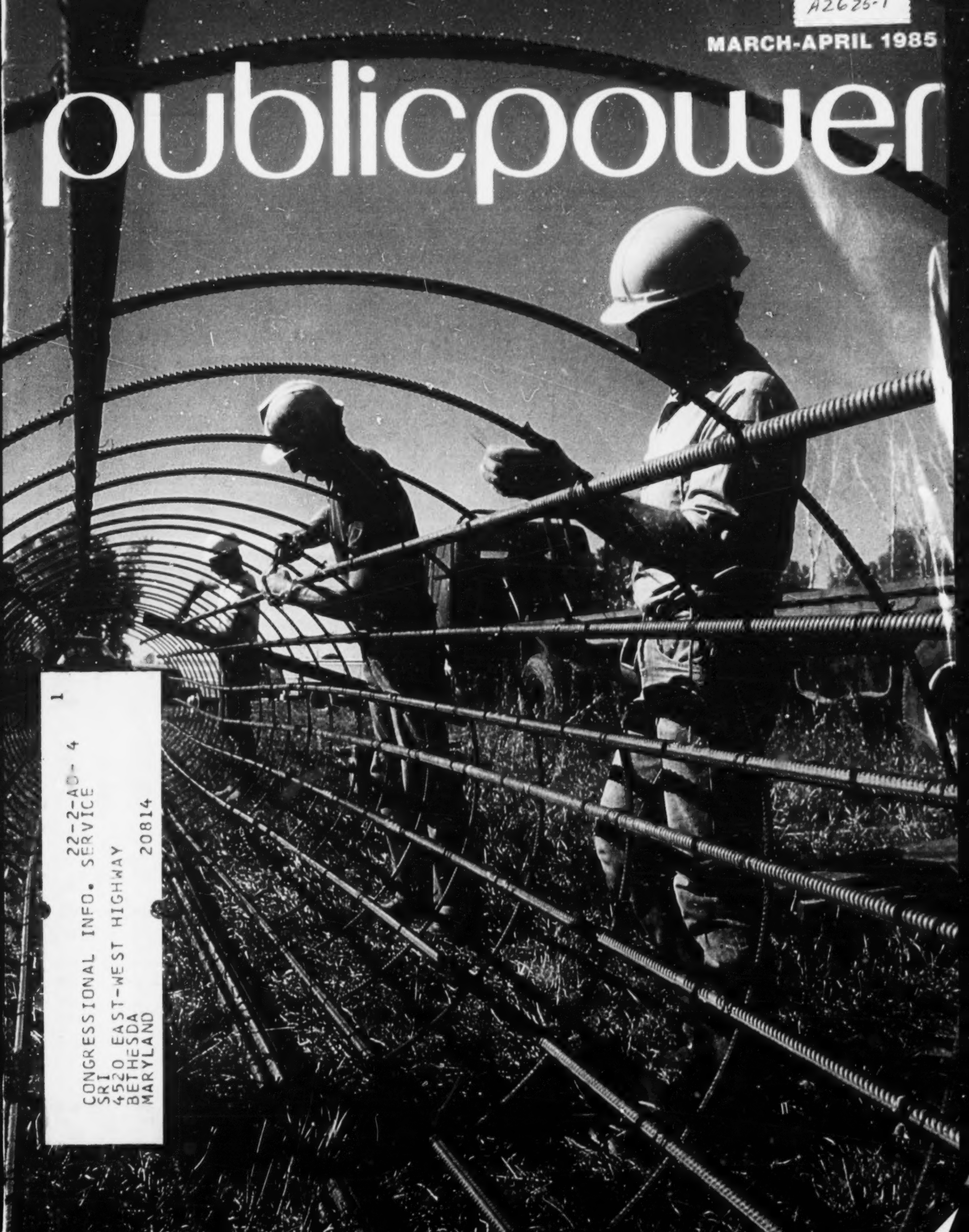
Conservation and Load Management, Substations and Other T&D



A2625-1

MARCH-APRIL 1985

publicpower



1
CONGRESSIONAL INFO. 22-2-A0- 4
SRI SERVICE
4520 EAST-WEST HIGHWAY
BETHESDA
MARYLAND 20814

public power

MARCH-APRIL 1985
VOLUME 43 NUMBER 2

2 **OUTLOOK AND INSIGHTS by Alex Radin**
Jim Grahl's and Ken Holum's legacy transcends power plants and coal mines.

10 **NEW ORLEANS MAY GO MUNICIPAL by Lori Woehrle**
Rolling blackouts, nuclear costs and favorable franchise help public power.

17 **PUBLIC POWER BOND ISSUES TOP $10 BILLION**
Publicly owned electric utilities issued a record $10.18 billion in revenue bonds last year, including $5.9 billion by joint-action agencies.

18 **PHOTO CONTEST—HERE ARE THE WINNERS!**

22 **SMORGASBORD OF ENERGY SOLUTIONS by Larry Bruneel**
An APPA study group found Swedes banking summer heat for winter extraction, powering heat pumps with sewage and storing coal in underground silos.

26 **COALITION WILL FIGHT RAIL MONOPOLY POWER by Randy Swisher**
CURE—a growing coalition—aims to cut coal freight rates through legislation.

30 **HOW GIANT POWER CAME TO THE PLAINS: an interview**
Ken Holum of Western Fuels and Jim Grahl of Basin Electric provide oral history and, upon their retirement, parting advice for persons involved in consumer-owned power.

45 **2,000 EXPECTED IN LOS ANGELES AT ANNUAL CONFERENCE**
Early May gathering will feature headline speakers and stimulating discussions.

56 **IMPROVING ORGANIZATIONAL COMMUNICATION by Donna Vocate**
As managers rely more on cold machines than warm flesh they should reconsider basic approaches to employee motivation.

66 **HOW ONE UTILITY COMMUNICATES by Linda Parker**
Bristol (Tenn.) Electric System provides a checklist against which to compare efforts to improve and maintain good management-employee relationships.

71 NEW PRODUCTS   75 BOOKS

77 **INSIDE APPA by Lori Woehrle**
Preference campaign under way; Blinder retires; Fry, Allen recognized.

78 MEETINGS   79 APPA PAPERS   79 AD INDEX

80 **THE OTHER SIDE by Vic Reinemer**
"Public power is at least holding its own, and interest in it is increasing."

Ken Holum, left, general manager of Western Fuels, and Jim Grahl, general manager of Basin Electric Power Cooperative, retired in March after leading and expanding consumer-owned electric supply systems for a generation. Their interview with PUBLIC POWER *begins on page 30.*

FRONT COVER: Reinhard P. Lindner of Omaha (Neb.) Public Power District won PUBLIC POWER's 1984 photo contest with his slide of line crew members tying a rebar (reinforcing) cage, to be used in a concrete foundation for a Missouri River crossing tower of a 161-kV transmission line. For other winners turn to page 18.

Editor and publisher, VIC REINEMER
Managing editor, LORI A. WOEHRLE
Associate editor, JEANNE WICKLINE LABELLA
Engineering editor, HERBERT I. BLINDER
Conservation editor, KAREN ANDERSON
Research editor, MICHAEL K. BERGMAN
Economics editor, JOHN KELLY
Innovations editor, JACQUIE COCHRAN
Consulting designer, LECKIE/LEHMANN

Contributing editors:
RALPH ALLEN
LARRY BRUNEEL
MADALYN CAFRUNY
TONI CLARK
PAUL FRY
CINDY GASKILL
ANNE MARIE GIBBONS
RUTH GONZE
TED HANDEL
LAWRENCE HOBART
JEANNIE KILMER
NANCY MOONEY
DEBBIE NUTTALL
EILEEN PEERLESS
ALEX RADIN
ALAN H. RICHARDSON
GORDON ROBERTS
HEIDI SCHWARTZ
RANDY SWISHER
JEFF TARBERT

Advertising manager, W. E. (Trez) Lee; *Assistant advertising manager,* Peggy Douglas; *Circulation manager,* Margaret I. Winfough; *Classified advertising manager,* LaVeer Jordan.

Editorial and advertising offices: 2301 M St. N.W., Washington, D.C. 20037. 202/775-8300

PUBLIC POWER *is the official publication of the American Public Power Association. Opinions expressed in signed articles are not necessarily* APPA *policies. For permission to reprint articles write or call the publisher.*

Published bimonthly, PUBLIC POWER is a member of Business Publication Audit of Circulation, Inc. (BPA) and the Society of National Association Publications (SNAP). Second-class circulation postage paid at Washington, D.C. Subscription Rate: $35 per year; single copy $5; Jan.-Feb. Directory $40 ($20 to members). (USPS-449-420)

Public Power Bond Issues Topped $10 Billion in '84

LOCAL PUBLICLY OWNED ELECTRIC utilities issued a record $10.18 billion worth of electric revenue bonds in 1984. This was a 3 percent increase from the $9.9 billion they sold in 1983, which had been a 5 percent increase over the $9.4 billion sold in 1982.

All tax-exempt bond sales, which had increased by 8 percent to $81.2 billion in 1983, increased by 15 percent to $93.3 billion last year.

Public power revenue bonds amounted to 10.9 percent of all tax-exempt bonds sold in 1984, compared with 12.2 percent in 1983 and 12.2 percent in 1982, according to the annual Shearson Lehman Bros. Inc. compilation of tax-exempt bonds. Data sources are THE BOND BUYER, Securities Data Corp. and the Public Securities Association.

The two joint-action agencies which issued more than $1 billion in bonds last year were Southern California Public Power Authority, Glendale, Cal., with $1.5 billion, and Intermountain Power Agency, headquartered in Murray, Utah, $1.1 billion.

Joint-action agencies accounted for $5.9 billion of the $10.18 billion public power bond total, 57.9 percent, as compared with 54 percent of the public power total in 1983 and 56 percent in 1982.

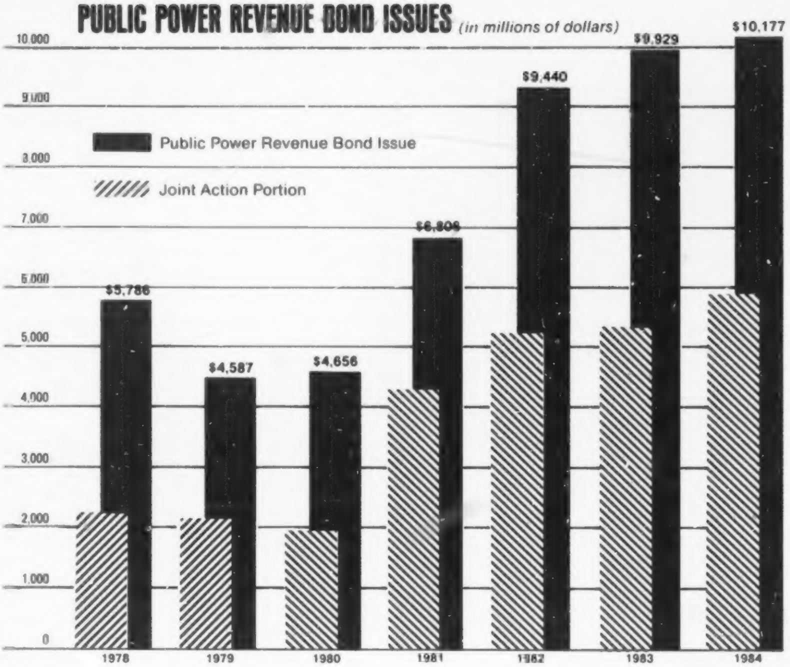
The 10-year total of electric bonds issued by the 33 joint-action agencies is $30.2 billion, an increase of 24 percent over the $24.4 billion issued by 32 joint-action agencies through 1983.

Public power revenue bond sales by quarter, in millions of dollars, were:

Quarter	1982	1983	1984
1st	$2,611	$3,070	$3,778
2nd	2,143	3,561	1,638
3rd	1,425	1,570	2,188
4th	3,067	1,747	2,576

The agency which issued bonds for the first time last year was Piedmont Municipal Power Agency, Gaffney, S.C.

One hundred and thirty of the public power issues last year, totaling $9.4 billion, were negotiated; 34 issues, totaling $731 million, were competitive. Within these totals, joint-action agencies negotiated 20 issues totaling $5.9 billion. No joint-action issues were competitive in 1983 or 1984. In 1982 one of the 24 joint-action agency issues was competitive, the rest negotiated. ✹


PUBLIC POWER REVENUE BOND ISSUES *(in millions of dollars)*

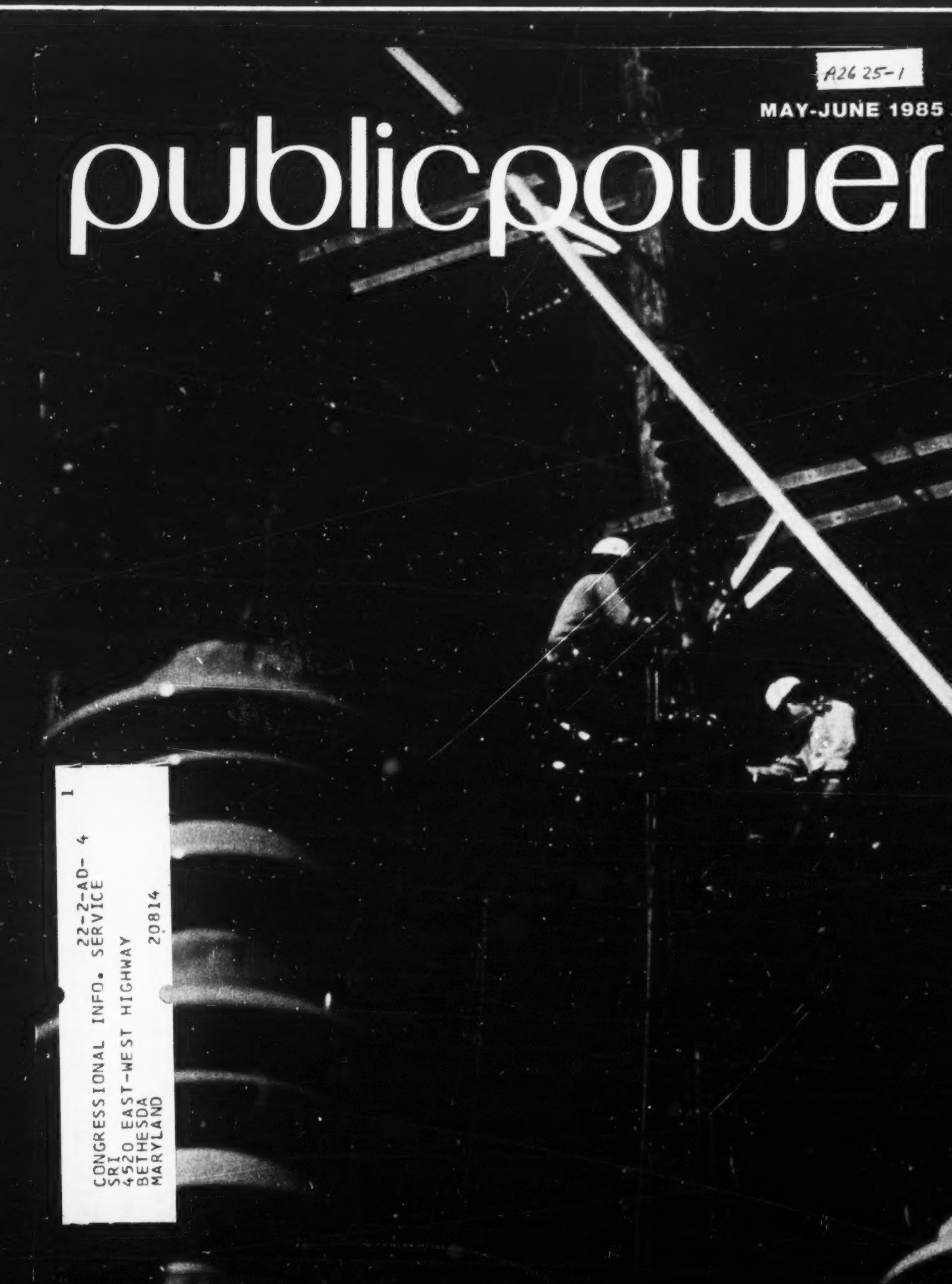
Total Bonds Issued by Joint-Action Public Power Systems

Issuer	1975-1984	Total (000)
Alabama Municipal Electric Authority		$1,000
Connecticut Municipal Electric Energy Cooperative		133,210
Florida Municipal Power Agency		415,000
Heartland Consumers Power District		297,840
Indiana Municipal Power Agency		143,000
Intermountain Power Agency		4,100,000
Kansas Municipal Energy Agency		22,885
Louisiana Energy and Power Authority		109,515
Massachusetts Municipal Electric System		26,100
Massachusetts Municipal Wholesale Electric Co.		1,212,870
Michigan Public Power Agency		634,370
Michigan South Central Power Agency		95,040
Mississippi Municipal Energy Agency		3,300
M-S-R Public Power Agency		667,800
Municipal Electric Authority of Georgia		2,275,000
Municipal Energy Agency of Nebraska		15,000
North Carolina Municipal Power Agency Number 1		2,007,000
North Carolina Eastern Municipal Power Agency		1,625,000
Northern California Power Agency		831,850
Northern Municipal Power Agency		268,000
Piedmont Municipal Power Agency		730,000
Platte River Power Authority		1,053,400
Sam Rayburn Municipal Power Agency		319,390
City of Sikeston, Mo.		250,000
Southern California Public Power Authority		2,492,875
Southern Minnesota Municipal Power Agency		318,000
Texas Municipal Power Agency		1,606,260
United Minnesota Municipal Power Agency		64,500
Utah Associated Municipal Power System		66,000
Vermont Public Power Supply System		59,235
Washington Public Power Supply System		8,120,000
Western Minnesota Municipal Power Agency		278,150
Wyoming Municipal Power Agency		21,540
10-Year Total		**$30,237,030**

A26 25-1

MAY-JUNE 1985

publicpower



1
CONGRESSIONAL INFO. 22-2-AD- 4
SRI SERVICE
4520 EAST-WEST HIGHWAY
BETHESDA
MARYLAND 20814

public power

MAY-JUNE 1985
VOLUME 43 NUMBER 3

2 **OUTLOOK AND INSIGHTS by Alex Radin**
"Technological developments must be scrutinized and, if appropriate, adopted at a quicker pace. The past conservatism of the utility industry may not serve the coming era."

10 **COGENERATION BENEFITS MUNICIPALS by Harold Issadore Sharlin**
"The inherent efficiency of the cogeneration concept gives it a prominent position in the national conservation thrust."

18 **MEETING TOMORROW'S ENERGY NEEDS TODAY by Lori Woehrle**
"APPA's Engineering and Operations Workshop illustrated how municipal utilities are studying, testing and using a range of traditional and new techniques."

25 **1985 PHOTO CONTEST BEGINS**
"Entries will be judged on their effectiveness in portraying public power projects, people and plants."

28 **PUBLIC POWER COSTS LESS by Jeannie Kilmer**
"Average residential revenue for private utilities in 1983 was 7.17 cents per kWh, 42.5 percent above the public systems' average of 5.03 cents per kWh."

33 **PUBLIC POWER CONTRIBUTES MORE by Jeannie Kilmer**
"During 1983 publicly owned systems contributed 8.3 percent of their electric operating revenue to state and local governments. IOUs paid 6.0 percent."

36 **SHOULDER TO SHOULDER by Patrick Dahl**
Consumer-owned power groups and their farm and labor allies have played monumental roles for 40 years, and can be central to future great alliances.

48A **AMERICAN PUBLIC POWER ASSOCIATION ANNUAL REPORT**

52 **KIDS LOVE ENERGY THEATRE by Cindi Sprouse**
Gainesville, Fla.'s, "Energy Carnival" is going national.

58 **STAMPS PORTRAY ELECTRICITY'S HISTORY**
"Electricity is a popular theme for postage stamp designers around the world."

62 **HELICOPTER SPEEDS TRANSFORMER REPLACEMENT**
by Edward J. Mrizek
Old units were removed and new ones installed in 22 minutes flying time.

75 APPA PAPERS 76 MEETINGS 78 BOOKS 78 AD INDEX

79 **INSIDE APPA by Lori Woehrle**
Legislative and Resolutions Committee urges rejection of plan to abandon cost-based rates; APPA honors 75 utilities for good safety records.

80 **THE OTHER SIDE by Vic Reinemer**
"The analogy between the mid-'50s and mid-'80s for consumer-owned power systems and their allies is striking and ominous."

FRONT COVER: Fort Collins (Colo.) Light and Power crew members work in tandem to transfer the 115-kV bus from a temporary wood pole to the permanent steel structure at the Drake substation. Other pictures from last year's photo contest, and details on this year's competition, appear on page 25. Photo by Tom McMillen

Editor and publisher, VIC REINEMER
Managing editor, LORI A. WOEHRLE
Associate editor, JEANNE WICKLINE LABELLA
Engineering editor, HERBERT L. BLINDER
Conservation editor, KAREN ANDERSON
Research editor, MICHAEL K. BERGMAN
Economics editor, JOHN KELLY
Innovations editor, JACQUIE COCHRAN
Consulting designer, LECKIE/LEHMANN

Contributing editors:
RALPH ALLEN
LARRY BRUNELL
MADALYN CAFRUNY
TONI CLARK
PAUL FRY
CINDY GASKILL
ANNE MARIE GIBBONS
RUTH GONZE
TED HANDEL
LAWRENCE HOBART
JEANNIE KILMER
LAWRENCE MANSUETI
NANCY MOONEY
DEBBIE NUTTALL
EILEEN PEERLESS
ALEX RADIN
ALAN H. RICHARDSON
GORDON ROBERTS
HEIDI SCHWARTZ
RANDY SWISHER
JEFF TARBERT

Advertising manager, W. E. (Trez) Lee; *Assistant advertising manager*, Peggy Douglas; *Circulation manager*, Margaret I. Winfough; *Classified advertising manager*, LaVeer Jordan.

Editorial and advertising offices: 2301 M St. N.W., Washington, D.C. 20037. 202/775-8300

PUBLIC POWER *is the official publication of the American Public Power Association. Opinions expressed in signed articles are not necessarily* APPA *policies. For permission to reprint articles write or call the publisher.*

Published bimonthly, PUBLIC POWER is a member of Business Publication Audit of Circulation, Inc. (BPA) and the Society of National Association Publications (SNAP). Second-class circulation postage paid at Washington, D.C. Subscription Rate: $35 per year; single copy $5; Jan.-Feb. Directory $40 ($20 to members). (USPS-449-420)

Public Power Costs Less

IOU residential rates averaged 42.5% higher in 1983

by JEANNIE KILMER
contributing editor, PUBLIC POWER, and
APPA manager of statistics/data processing

LATEST OFFICIAL FIGURES DEMONSTRATE once again that the consumer-owners of the nation's local publicly owned electric utilities enjoy electric rates significantly lower than those paid by customers of private power companies.

Comparative statistics for 1983, just published by the Department of Energy's Energy Information Administration (EIA), continue the annual electric utility industry statistical series begun by the former Federal Power Commission (FPC) in 1946. Each report has shown that the local publicly owned segment of the pluralistic electric utility industry has been the leader in providing consumers with lower cost power.

The data appear in EIA's publications of statistics for electric utilities, privately owned and publicly owned. These reports represent nearly 100 percent of the investor-owned utilities (IOUs) and a lesser portion of the publicly owned systems. EIA's statistics for 1983 cover 199 private power companies and 162 local publicly owned electric utilities. EIA statistics for publicly owned utilities have been supplemented with data for an additional 110 municipal utilities published in "TVA Power Program Summary, Volume II." These 110 utilities were included in the EIA or FPC reports for 1978 and earlier years.

The average residential consumer in a local public power system used 24.2 percent more electricity in 1983 than the average residential customer of the private power companies — 10,389 kWh to 8,366 kWh. But the public power consumer paid 12.9 percent less on the average for 24.2 percent greater annual consumption — $522.60 to

SALES TO RESIDENTIAL CONSUMERS*

	Average Annual kWh Consumption		*Average Revenue Per kWh (cents)*		*Average Annual Bill (dollars)*	
	Private	*Public*	*Private*	*Public*	*Private*	*Public*
1946	1,298	1,739	3.29	2.32	$42.67	$40.32
1950	1,767	2,518	2.95	1.99	52.14	50.06
1955	2,573	3,824	2.76	1.69	70.97	64.63
1960	3,454	5,208	2.62	1.58	90.51	82.46
1965	4,618	6,634	2.39	1.53	110.53	101.26
1966	4,931	7,007	2.34	1.50	115.37	105.13
1967	5,220	7,317	2.31	1.49	120.38	108.90
1968	5,706	7,880	2.28	1.47	128.43	115.93
1969	6,246	8,546	2.21	1.45	137.99	123.90
1970	6,700	9,015	2.22	1.47	148.92	132.89
1971	7,039	9,378	2.32	1.56	163.08	146.47
1972	7,391	9,630	2.42	1.63	178.96	156.95
1973	7,742	10,080	2.54	1.70	196.54	170.80
1974	7,550	9,797	3.10	1.94	233.85	190.54
1975	7,830	10,125	3.51	2.33	275.17	236.19
1976	7,840	9,539	3.78	2.79	295.94	265.76
1977	8,256	10,791	4.06	2.79	334.92	300.91
1978	8,453	11,383	4.31	3.00	364.35	341.23
1979	8,319	10,940	4.64	3.22	385.70	352.43
1980	8,531	10,744	5.36	3.77	457.23	405.07
1981	8,277	10,391	6.20	4.32	513.11	448.79
1982	8,252	10,188	6.83	4.74	563.71	483.03
1983	8,366	10,389	7.17	5.03	599.92	522.60

SALES TO COMMERCIAL AND INDUSTRIAL CONSUMERS*

	Average Annual kWh Consumption		*Average Revenue Per kWh (cents)*		*Average Annual Bill (dollars)*	
	Private	*Public*	*Private*	*Public*	*Private*	*Public*
1946	28,110	22,475	1.50	1.29	$421.55	$289.24
1950	33,653	25,124	1.54	1.33	518.55	334.40
1955	49,038	38,329	1.45	1.19	711.04	457.55
1960	61,944	49,421	1.49	1.22	922.71	604.69
1965	79,201	66,396	1.40	1.18	1,109.26	783.93
1966	85,265	70,557	1.37	1.16	1,168.58	818.81
1967	89,347	74,373	1.37	1.16	1,224.13	865.43
1968	96,332	79,687	1.36	1.15	1,307.14	916.71
1969	102,965	85,683	1.36	1.15	1,395.61	983.24
1970	107,041	89,653	1.40	1.17	1,502.43	1,052.87
1971	110,973	92,778	1.50	1.26	1,671.12	1,170.33
1972	117,793	98,384	1.58	1.31	1,863.05	1,294.31
1973	124,082	103,785	1.68	1.40	2,083.46	1,449.28
1974	121,112	102,974	2.19	1.64	2,655.04	1,693.43
1975	119,381	110,076	2.62	1.97	3,127.77	2,178.01
1976	125,296	111,414	2.82	2.38	3,531.09	2,654.90
1977	130,602	124,331	3.12	2.38	4,076.98	2,954.33
1978	132,610	129,874	3.39	2.65	4,497.61	3,444.14
1979	133,355	129,342	3.66	2.88	4,877.69	3,722.15
1980	129,499	124,586	4.38	3.41	5,673.85	4,251.19
1981	129,022	126,429	5.07	3.88	6,542.72	4,902.13
1982	122,096	127,807	5.72	4.31	6,982.79	5,508.46
1983	124,308	126,815	5.79	4.48	7,195.13	5,682.92

*Care should be taken in the use of this data due to year-to-year variations in sample size.

$599.92. Average residential revenue for the companies in 1983 was 7.17 cents per kWh, 42.5 percent higher than the public systems' average of 5.03 cents per kWh. Or, to phrase it differently, average residential rates paid by public power customers were 29.8 percent below the average paid by customers of IOUs.

2.14¢ per kWh Difference

Thus, on the average, residential customers of the private power companies paid 2.14 cents more for each kWh of electricity used in 1983 than consumers served by local publicly owned electric utilities. In 1982 the spread was 2.09 cents per kWh.

Revenue per kWh of electricity sold to residential consumers increased in 1983 for both the privately owned and publicly owned electric utilities. In the case of the public systems, revenue per kWh of residential use went up from 4.74 cents per kWh in 1982 to 5.03 cents per kWh in 1983. For the private companies, average revenue per kWh of electricity sold to residential customers climbed from 6.83 cents to 7.17 cents in 1983.

In 1983 the average commercial or industrial customer of a local public power system used 2.0 percent more power than the average commercial or industrial user served by a private power company (126,815 kWh to 124,308 kWh). But the private utility average customer's annual bill was 26.6 percent more ($7,195 to $5,683).

Average commercial and industrial revenue for the privately owned companies, 5.79 cents per kWh, was 29.2 percent higher than the 4.48 cents per kWh for the publicly owned systems.

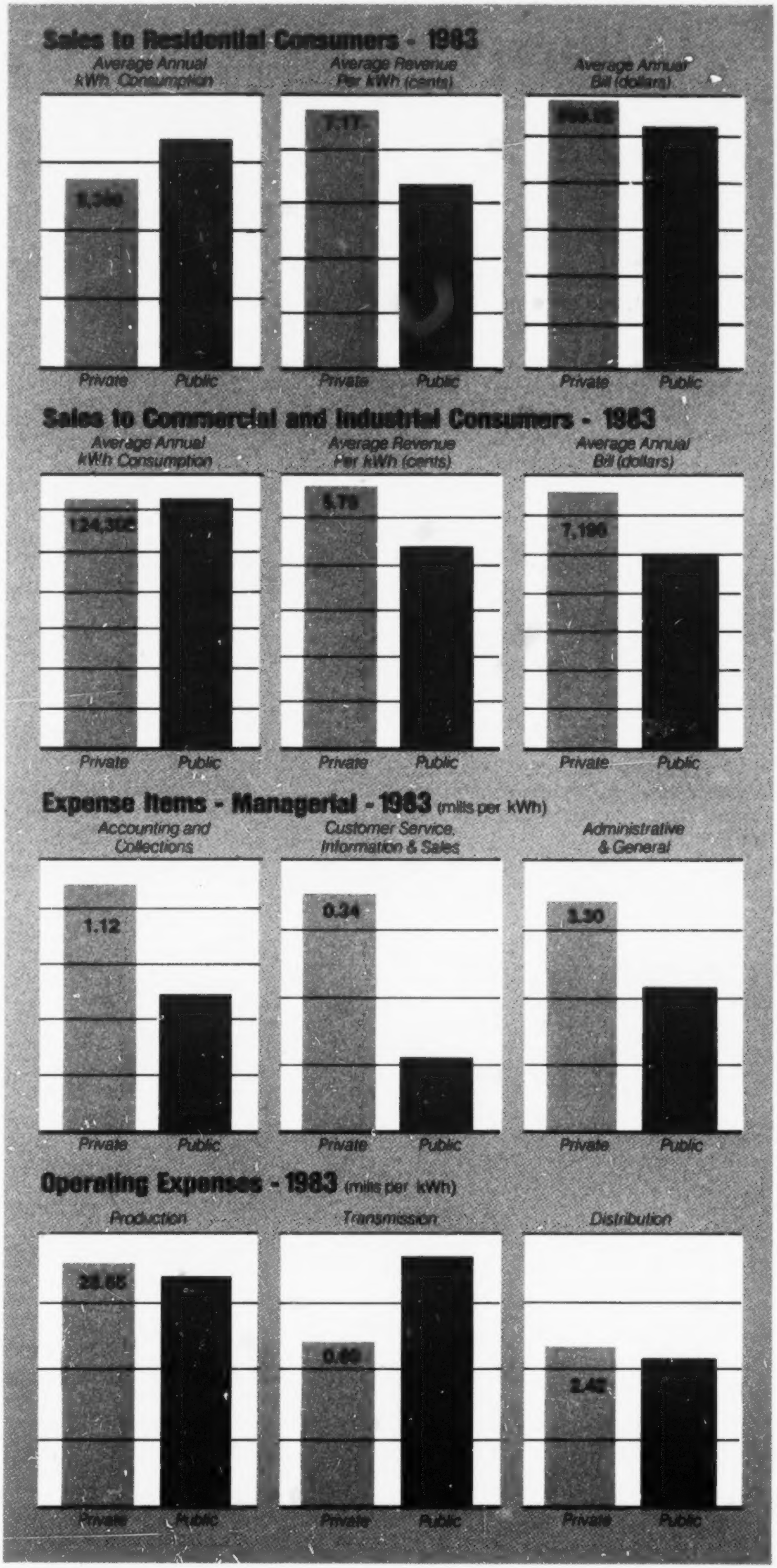
Average commercial and industrial revenue per kWh was higher in 1983 than in 1982 for both the private and publicly owned utilities — up from 5.72 cents to 5.79 cents per kWh for the companies, and from 4.31 cents to 4.48 cents per kWh for the public systems.

IOU Expenses Higher

Administrative and general expenses reported by the public systems were lower than the private power companies' on the basis of expense per $100 of revenue ($5.19 to $5.57) and on the basis of kWh sold (2.15 mills per kWh for the publicly owned systems compared to 3.30 mills per kWh for the companies).

Accounting and collections per customer cost the investor-owned utilities $30.08 in 1983, compared with $24.47 for the publicly owned utilities. This cost was $1.11 higher than 1982 for the IOUs and rose $1.14 for the public systems.

On the basis of kWh sales, accounting



and collections cost the companies 1.12 mills per kWh, compared with 0.66 mills per kWh for publicly owned utilities.

In 1983, the private power companies spent 58 cents of each $100 of revenue for customer service, information and sales expenses (previously reported as promotion and advertising expenses), up eight cents from 1982; the publicly owned systems spent 28 cents of each $100 of revenue for this item — down one cent from the previous year.

Customer service, information and sales expenses of the companies were 0.34 mills per kWh sold, compared with 0.12 mills for the public power systems.

Production costs per kWh were lower in the public systems than the companies in 1983, for the 14th consecutive year: 28.55 mills per kWh for the companies; and 25.85 mills per kWh for the publicly owned systems.

Distribution expenses per customer rose for both types of systems in 1983 — from $50.62 in 1982 to $54.06 in 1983 for the companies, and from $53.80 in 1982 to $57.36 in 1983 for the public systems. Distribution expenses for the companies were 2.42 mills per kWh sold to ultimate customers, compared to 2.23 mills per kWh sold to ultimate customers by the public systems.

For the seventh year since the federal statistics have been published, IOU transmission costs were lower. In 1983 their transmission expenses per kWh rose to 0.60 mills, up from 0.56 mills in 1982 and 0.46 mills in 1981; the public systems' transmission costs in 1983 were 0.92 mills per kWh, up from 0.86 mills in 1982 and 0.81 mills in 1981.

The publicly owned electric utilities had electric operating revenue of 4.14 cents per kWh sold in 1983, while the privately owned electric utilities had operating revenues of 5.93 cents per kWh. The private companies had net interest charges which equaled 0.52 cents for each kWh sold and dividends on preferred and common stock equal to, respectively, 0.14 cents and 0.53 cents per kWh sold. The publicly owned utilities had total income deductions equal to 0.58 cents per kWh sold in 1983.

The cost of debt and equity capital for the privately owned utilities was equal to 17.3 percent of operating revenue. The public systems, which do not pay dividends to private stockholders, paid the equivalent of 14.0 percent of their operating revenue as interest on long-term debt and for other income deductions.

These latest statistical reports show that in 1983, as in the previous 37 years since the comparative statistics have been published, the local publicly owned electric utilities are leading the industry in providing economical electric service to consumers. ✸

EXPENSE ITEMS

OPERATIONS

	Production		**Transmission**		**Distribution**	
	Per kWh Sold (in mills)		*Per kWh Sold (in mills)*		*Per Customer (in dollars)*	
	Private	*Public*	*Private*	*Public*	*Private*	*Public*
1946	4.35	4.30	.27	.14	$9.37	$9.19
1950	4.96	4.68	.26	.13	12.04	11.77
1955	4.42	4.68	.26	.13	14.18	13.79
1960	4.20	4.70	.25	.15	16.19	10.24
1965	3.98	4.34	.21	.15	17.48	17.93
1966	4.01	4.36	.21	.16	17.84	18.54
1967	4.03	4.31	.21	.15	18.67	19.37
1968	4.09	4.16	.21	.15	19.31	20.43
1969	4.21	4.23	.22	.13	20.56	22.88
1970	4.76	4.61	.23	.15	22.14	24.15
1971	5.49	5.25	.24	.16	22.82	25.41
1972	5.97	5.71	.25	.16	24.13	26.02
1973	6.70	6.47	.26	.17	25.52	27.53
1974	10.72	8.01	.29	.18	26.46	29.98
1975	12.70	9.35	.31	.21	27.63	31.78
1976	13.73	12.04	.34	.29	29.51	34.18
1977	15.87	13.28	.35	.54	31.76	33.78
1978	17.27	14.37	.37	.64	34.81	35.94
1979	19.69	16.32	.40	.67	37.68	38.17
1980	24.14	20.16	.43	.68	41.90	44.83
1981	27.89	23.53	.48	.81	45.19	48.97
1982	29.00	24.64	.56	.86	50.62	53.80
1983	28.55	25.85	.60	.92	54.06	57.36

MANAGERIAL

	Accounting and Collections Per Customer		*Customer Service Information and Sales Per $100 Revenue*		*Administrative and General Per $100 Revenue*	
	Private	*Public*	*Private*	*Public*	*Private*	*Public*
1946	$3.73	$2.82	$1.77	$1.03	$7.22	$6.11
1950	4.44	3.35	1.79	1.11	7.90	6.85
1955	5.33	4.00	1.73	.95	6.73	6.59
1960	6.38	4.94	1.70	1.04	6.29	6.31
1965	7.06	6.15	1.79	1.14	6.23	5.80
1966	7.18	6.13	1.83	1.09	6.00	5.84
1967	7.34	6.48	1.79	1.10	5.87	6.23
1968	7.68	6.78	1.75	1.10	5.70	6.10
1969	8.11	7.36	1.69	1.08	5.74	6.08
1970	8.86	7.98	1.54	1.01	5.87	6.25
1971	9.61	8.77	1.30	.89	5.84	6.06
1972	10.31	9.18	1.00	.80	5.88	5.96
1973	11.33	9.55	.74	.67	5.78	5.79
1974	13.26	10.61	.42	.50	5.19	5.65
1975	15.25	12.33	.30	.35	4.98	5.14
1976	16.34	14.50	.27*	.28	4.99	5.09
1977	17.17	12.75	.36	.22	4.94	4.68
1978	18.59	15.87	.36	.22	5.11	4.64
1979	20.25	16.41	.38	.29	5.21	4.24
1980	22.51	18.40	.37	.28	5.08	4.45
1981	25.82	20.87	.42	.31	5.05	4.22
1982	28.97	23.33	.50	.29	5.42	5.17
1983	30.08	24.47	.58	.28	5.57	5.19

(*) "Customer Service, Information and Sales" was formerly listed as "Promotion and Advertising." The 1976 and subsequent figures reflect a federal reporting change which combined sales expenses with customer service and information expenses.

Public Power Contributes More

IOUs pay proportionately less state, local taxes

by **JEANNIE KILMER** *contributing editor, PUBLIC POWER, and APPA manager of statistics data processing*

COMPARISON OF PUBLIC AND PRIVATE utility taxes may surprise persons who do not follow the issue closely. Public power systems pay proportionately more of their gross revenues to local and state governments than do investor-owned utilities (IOUs).

During 1983, the last year for which statistics are available, publicly owned systems contributed 8.3 percent of their gross electric operating revenue to local and state governments. IOUs paid 6.0 percent to state and local governments (and to the U.S. government as excise tax) during the same period.

During the previous year public systems contributed 6.9 percent, and private systems 6.1 percent, of their gross electric operating revenues. The increase in public contributions probably reflects more comprehensive reporting by the public utilities in 1983.

Public power payments to local and state governments include both direct payments (taxes, in-lieu-of-tax-conveyances and transfers to general funds) and indirect payments such as streetlighting, traffic signals and electricity for municipal buildings. These payments, according to data provided APPA by 569 public systems, were generally higher in the Mountain and Pacific Southwest (12.6 percent and 11.6 percent, respectively) and lowest in the Northeast and East North Central (4.4 percent and 4.5 percent, respectively).

Public power systems do not pay federal income taxes. Neither do many private electric utilities. In 1983, the last year for which official data are available, investor-owned utilities received $143.1 billion in total revenues and were charged $2.0 billion in taxes.* This amounts to 1.4 percent of total revenue. Taxes actually *paid* were less than taxes *charged*, because of tax deferral.

Forty-one private utilities either were charged no federal income taxes or received tax credits despite their profits, because federal legislation virtually frees them from taxation. ✸

Taxes and Payments In-Lieu-of-Taxes by Public and Private Utilities

Average percentage of gross electric operating revenue paid to state and local governments

Region	Public	Private
	(Number of systems reporting in parentheses)	
NORTHEAST	4.4%	6.3%
Conn., Maine, Mass., N.H., N.J., N.Y., Pa., R.I., Vt.	(57)	(58)
ATLANTIC	11.5%	5.4%
D.C., Del., Fla., Ga., Md., N.C., S.C., Va., W.Va.	(72)	(25)
EAST NORTH CENTRAL	4.5%	6.5%
Ill., Ind., Mich., Ohio, Wis.	(72)	(40)
EAST SOUTH CENTRAL *	10.4%	4.2%
Ala., Ky., Miss., Tenn.	(115)	(9)
WEST NORTH CENTRAL	7.6%	7.1%
Iowa, Kan., Minn., Mo., Neb., N.D., S.D.	(138)	(19)
WEST SOUTH CENTRAL	9.0%	4.0%
Ark., La., Okla., Texas	(31)	(16)
MOUNTAIN	12.6%	5.1%
Colo., Mont., N.M., Utah, Wyo.	(19)	(6)
PACIFIC NORTHWEST	7.9%	6.0%
Alaska, Idaho, Oreg., Wash.	(47)	(7)
PACIFIC SOUTHWEST	11.6%	6.2%
Ariz., Cal., Nev.	(18)	(8)
OTHER		9.0%
Hawaii**		(3)
U.S. Average	8.3%	6.0%
Total number of systems reporting	(569)	(191)

SOURCES: APPA utility information surveys; FERC Form 1, annual reports of electric utilities; Vol. 2, TVA power program summaries; and other data supplied by TVA's government research unit.

* This includes TVA in-lieu-of-tax payments to state and local governments of municipal systems that distribute TVA power. All of the public power systems in Tennessee and half of the public power systems in Alabama, Kentucky and Mississippi are TVA distributors.

** No public power systems in Hawaii.

**As reported in "Financial Statistics of Selected Electric Utilities in the U.S., 1982."* (DOE/EIA). *Total revenues include utility operating revenues and other income.*

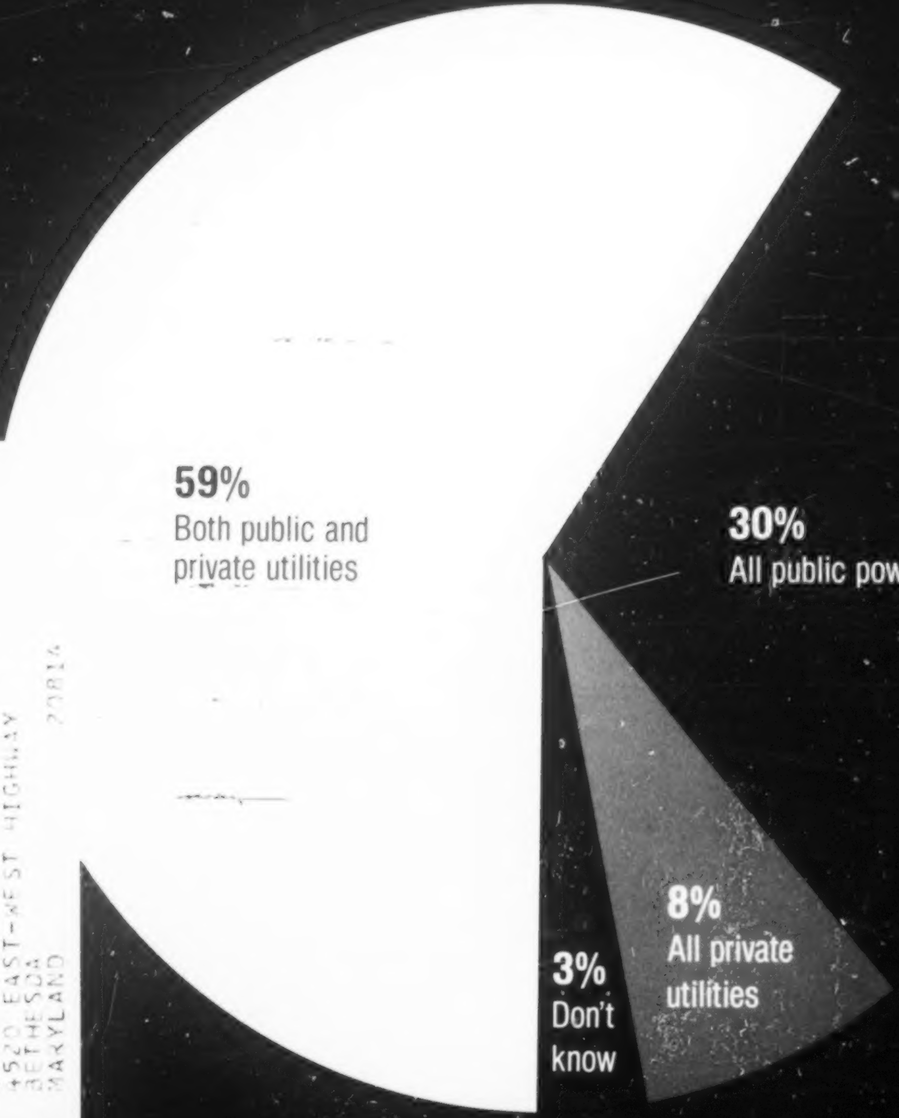
A262-/

JULY-AUGUST 198

publicpower

POLL RESULTS

Which is best for the U.S.?



1
CONGRESSIONAL INFO. SERVICE 22-2-AD- 4
SPI
4520 EAST-WEST HIGHWAY
BETHESDA 20814
MARYLAND

public power

JULY-AUGUST 1985
VOLUME 43 NUMBER 4

2 **OUTLOOK AND INSIGHTS by Alex Radin**
Transmission, conservation and tax simplification all bear on efficiency, which is growing in importance as competition increases in the electric power industry.

10 **50-MW WOOD-FUELED PLANT WORKING WELL FOR BURLINGTON by Thomas Carr**
The project is successful, and the production manager has some tips for those who would follow his municipal system's lead.

14 **WOOD GENERATION SUITS VERMONT by Donald F. Dennis and Shelly J. Dresser**
Woodlot owners and game protectors help regulate Burlington plant.

18 **NATIONAL OPINION POLL GIVES PUBLIC POWER HIGH MARKS by Madalyn Cafruny**
The public strongly supports public power in every dominant measure tested.

22 **TRANSMISSION BARRIER BREAKING by Lloyd H. Harvego**
Public power utilities play a major role in a new transmission line in the West.

24 **TRANSMISSION OPTIONS WIDEN by Kirk Howard Betts**
"Your options extend well beyond the utilities abutting your service area."

28 **THE CHANGING FACE OF COMPETITION by Jeanne Wickline LaBella**
APPA conferees learned competition is assuming a new character.

33 **FRIENDLY ADVICE ON KEY ISSUES An interview with Rep. Al Swift**
The recipient of APPA's 1985 Public Service Award discusses legislation, the administration and public power governance.

45 **EFFECTIVE POLITICAL ACTION AT THE STATE LEVEL**
Six APPA leaders tell what works best politically in their states.

52 **ENERGY INNOVATORS HONORED**
Austin, Texas; Columbia, Mo.; Memphis, Tenn.; Palo Alto, Cal.; Sioux Center, Iowa and a Nebraska combination best demonstrated energy efficiency.

55 **TWELVE RECEIVE APPA AWARDS**
Nashville, Tenn., and 11 individuals received the Association's top awards.

66 **PROLONG UNDERGROUND CABLE USE by Eric Winslow**
No Dover, Del., cable has failed since nitrogen started to flow March 6, 1984.

75 **UTILITY TRAINING ON A SHOESTRING by George W. Laing**
No money for training? Okay, then be resourceful.

72 NEW PRODUCTS **83 BOOKS** **84 APPA PAPERS**
85 AD INDEX **85 LETTERS** **86 MEETINGS**

87 **INSIDE APPA by Lori Woehrle**
APPA awards eight grants, five scholarships; tour of Swedish innovations planned; communication newsletter launched; videotape available.

88 **THE OTHER SIDE by Vic Reinemer**
Authors of new books are looking at consumer-owned electric systems; Anderson's ILLUSIONS OF POWER is rich in Northwest public power history.

FRONT COVER: APPA's first national public opinion poll shows strong support for public power principles throughout the United States. Madalyn Cafruny's report on the poll begins on page 18.

Editor and publisher, VIC REINEMER
Managing editor, LORI A. WOEHRLE
Associate editor, JEANNE WICKLINE LABELLA
Conservation editor, KAREN ANDERSON
Research editor, MICHAEL K. BERGMAN
Economics editor, JOHN KELLY
Innovations editor, JACQUIE COCHRAN
Consulting designer, LECKIE/LEHMANN

Contributing editors:
RALPH ALLEN
LARRY BRUNEEL
MADALYN CAFRUNY
TONI CLARK
PAUL FRY
CINDY GASKILL
ANNE MARIE GIBBONS
RUTH GONZE
TED HANDEL
LAWRENCE HOBART
LAWRENCE MANSUETI
NANCY MOONEY
DEBBIE NUTTALL
EILEEN PEERLESS
ALEX RADIN
ALAN H. RICHARDSON
GORDON ROBERTS
HEIDI SCHWARTZ
JEANNIE SHENK
RANDY SWISHER
JEFF TARBERT

Advertising manager, W. E. (Trez) Lee; *Assistant advertising manager*, Peggy Douglas; *Circulation manager*, Margaret I. Winfough; *Classified advertising manager*, LaVeer Jordan.

Editorial and advertising offices: 2301 M St. N.W., Washington, D.C. 20037. 202/775-8300

PUBLIC POWER is the official publication of the American Public Power Association. Opinions expressed in signed articles are not necessarily APPA policies. For permission to reprint articles write or call the publisher.

Published bimonthly, PUBLIC POWER is a member of Business Publication Audit of Circulation, Inc. (BPA) and the Society of National Association Publications (SNAP). Second-class circulation postage paid at Washington, D.C. Subscription Rate: $35 per year; single copy $5; Jan.-Feb. Directory $40 ($20 to members). (USPS-449-420)

National Opinion Poll Gives Public Power High Marks

by MADALYN CAFRUNY
contributing editor, PUBLIC POWER, *and* APPA *public information director*

A MAJORITY OF U.S. consumers believe public power is more concerned about the environment, offers lower rates, allows more control over utility operations, and has better service than private power companies.

These are some of the findings of a national public opinion poll commissioned by the American Public Power Association and conducted in March and April.*

The objectives of the study were to determine basic attitudes about electric utilities, measure knowledge of the nation's current electric utility structure, assess perceived differences between public and private power, and test awareness and opinion about the preference clause and cost-based *vs.* market-based rates for federal hydroelectric power.

The poll shows that the public at large comes down heavily on the side of public power in every dominant measure tested. The American people support public power principles. They strongly favor a competitive, diverse electric utility industry. They want public water resources used for nonprofit, public purposes, and oppose arbitrary increases in federal power prices.

Pluralism, Competition Supported

Six out of every 10 respondents were aware of the pluralistic nature of the electric utility industry, with public, cooperative and privately owned systems, and 59 percent think it is best for the country to continue to have such a mix. Nearly one-third, 30 percent, favored public ownership for all utilities; only 8 percent favored private ownership for all utilities.

The public believes local ownership of electric utilities plays a strong competitive role in the electric utility industry. Sixty-seven percent of the respondents agreed with the statement that "if publicly owned utilities did not exist, then the privately owned, for-profit utilities would have a monopoly over the utility industry and they could charge whatever they wanted." By similar percentages, 68 to 27, respondents endorsed the view that publicly owned utilities provide a standard of competition by which to measure the quality and cost of services provided by private power companies. They rejected, 54 percent to 39 percent, the view that consumers always get a fair rate because private power companies are regulated.

Cost-Based Pricing Favored

By a margin of 70 percent to 25 percent, respondents opted for cost-based rates over market-based rates for federal hydro power. Also, 73 percent agreed that "The government should not make a profit from waterpower because this water belongs to all citizens." Sentiment on this point was strong in all regions of the country. A solid majority favored the status quo in distribution of federal power, with 63 percent wanting current laws left alone.

The poll tested support for Office of Management and Budget Director David Stockman's proposal to charge today's interest rates for old outstanding debt on federal projects. The vast majority of those participating in the poll, 86 percent, agreed with public power's position that the federal loans should be repaid at their original interest rate.

While only 14 percent of those polled were aware of the preference laws allowing publicly owned electric utilities first right to federally generated hydroelectric power, 57 percent supported the policy when told about it. Only 21 percent opposed it, and the remaining 22 percent had no opinion.

Public vs. Private Benefits

When asked, "Which type of system do you believe would be more concerned about the environment—public or private?" 70 percent of the respondents opted for public power.

When asked which type of system would have lower rates, a solid majority, 65 percent, again chose public power over private power.

Half of the respondents also believed public power would provide better overall service; only 37 percent thought private power companies would provide the best service.

By a more than two-to-one majority, 66 percent of the respondents agreed that "publicly owned utilities are better than pri-

---

**This was* APPA*'s first national public opinion poll. It was designed and conducted by Hamilton & Staff of Bethesda, Md., and funded by* APPA*'s Campaign to Preserve Preference and Cost-Based Rates.*

This telephone survey of 1,300 U.S. adults had two parts: a nationwide random sample of 800 adults and a separate sample of 500 public power customers randomly selected from all public power customers. The nationwide sample had a maximum sampling error of plus or minus 3 percent; the public power sample had a maximum sampling error of plus or minus 6.5 percent. Data were weighted to reflect the correct consistency of respondents by service type and region. The sample also reflected census data for adult Americans over the age of 18 by race, age, and sex.

Copies of the public opinion poll are available from Deborah Sliz, APPA*'s preference campaign coordinator.*

vately owned ones because the consumers have a greater say in how the utility is run."

The poll also revealed two misconceptions about public power—apparently demonstrating in both instances the public's general negative feelings toward government bureaucracy and bigness. Although a majority of public power systems serve communities with populations of 10,000 or less, 58 percent thought publicly owned systems would be larger than private power companies. Also, despite statistics year after year by the Department of Energy showing that public power systems have significantly lower management and operating costs than private companies, 52 percent of the respondents expressed the view that private power would have "less bureaucracy and waste," and 61 percent said private power would be more efficient.

Opinions Mixed on Service

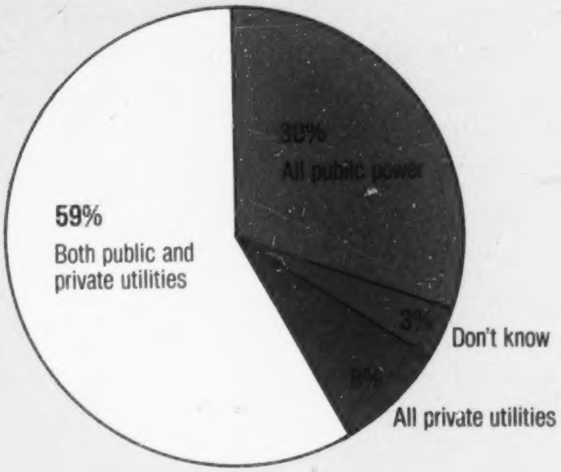
Respondents had mixed opinions about electric utilities in general.

First, 87 percent gave the electric utility that serves them positive ratings; only 12 percent rated the utility negatively. There were no basic differences in attitude between public and private power customers.

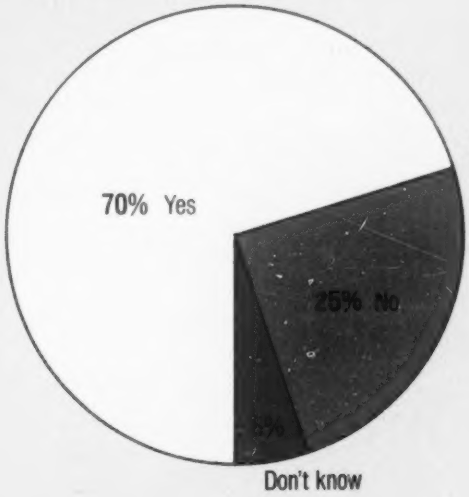
However, respondents were split on whether their utilities were well- or poorly run. Forty-four percent said their utility was "well run and efficient," while 38 percent rated their utility "poorly run with a lot of money wasted." People served by a public power system were slightly less likely than those served by a private company to say their electric utilities were poorly run.

Only 25 percent of the respondents said they have "a lot" or "some" control over their electricity rates. Persons served by private utilities were more likely to say they had no control. These diverging views on control were strong in the Northwest. Seventy percent of the Northwest respondents served by private utilities, and 37 percent of those served by public power, said they had no control over rates. ✹

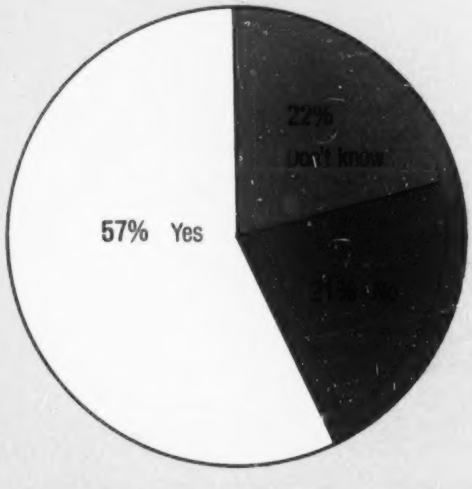
Which is best for the U.S.?



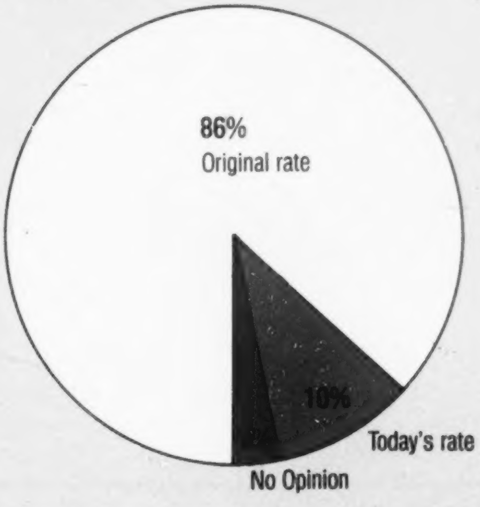
Do you favor cost-based rates?



Do you favor public "first right" policy?



Do you think federal dam debt should be repaid at the original interest rate, or at today's interest rate?



9/11x/85
A2625-1

SEPTEMBER-OCTOBER 1985

publicpower

1

CONGRESSIONAL INFO. SERVICE 22-2-AD- 4
SRI
4520 EAST-WEST HIGHWAY
BETHESDA
MARYLAND 20814

Stephen R Wagner 85

public power

SEPTEMBER-OCTOBER 1985
VOLUME 43 NUMBER 5

2 OUTLOOK AND INSIGHTS by Alex Radin
Cavalier disregard of facts on hydro relicensing by the NEW YORK TIMES, and its refusal to print corrections, are disillusioning and disheartening.

12 WOMEN IN PUBLIC POWER by Bethany Weidner
Women are getting top posts in "their" divisions, and filling nontraditional positions; one manages a major local system. But salary disparities continue.

15 WOMAN PLANT OPERATOR HONORED by June L. Zamjahn
Carol McLean of Tacoma is Washington state's Tradeswoman of the Year.

22 THE NEXT GENERATION OF GENERATION (seven articles)
by Michael K. Bergman, Larry Mansueti, Larry Bruneel and Larry Hobart
APPA's technical services staff summarizes factors which may influence near-term power generation planning, p. 23; then looks at the benchmark conventional units, p. 26; local resources demanding attention, p. 37; growing use of waste heat, p. 47; breakthroughs which are transforming old approaches, p. 52; and energy storage, p. 65. Then, p. 66, they ask: Who will shoulder the risk? A table summarizing 30 technologies is on pp. 34-35.

70 WE'LL GET TRANSMISSION ACCESS—AFTER A FIGHT—SAYS HOYT
APPA President Gordon W. Hoyt discusses technology, taxes, politics and management—and peers into the future—in a PUBLIC POWER interview.

82 SHOULD NUCLEAR LIABILITY LIMITS BE REMOVED?
"No," says E.C. Pape. "Yes," argues Larry Haas.

88 UTILITY EDUCATION COURSES GENERATE CASH SAVINGS
by Toni Clark
Seventeen diverse courses are scheduled for this fall.

93 LETTERS **97 BOOKS** **97 AD INDEX** **98 MEETINGS**

99 INSIDE APPA by Lori Woehrle
Preference campaign enters Phase II; video on public power benefits and audiovisual catalog produced; and communications, legal groups to meet.

100 THE OTHER SIDE by Vic Reinemer
The prospects for savings by electric utilities and their residential customers through appliance efficiency standards brightened considerably this summer.

FRONT COVER: Illustrator Stephen R. Wagner portrays some of the near-term generation alternatives, through which APPA's technical staff provides a 27-page tour, beginning on page 22.

Editor and publisher, VIC REINEMER
Managing editor, LORI A. WOEHRLE
Associate editor, JEANNE WICKLINE LABELLA
Conservation editor, KAREN ANDERSON
Research editor, MICHAEL K. BERGMAN
Economics editor, JOHN KELLY
Innovations editor, JACQUIE COCHRAN
Consulting designer, LECKIE/LEHMANN

Contributing editors:
RALPH ALLEN
LARRY BRUNEEL
MADALYN CAFRUNY
TONI CLARK
PAUL FRY
CINDY GASKILL
ANNE MARIE GIBBONS
RUTH GONZE
TED HANDEL
LAWRENCE HOBART
LAWRENCE MANSUETI
NANCY MOONEY
DEBBIE NUTTALL
EILEEN PEERLESS
ALEX RADIN
ALAN H. RICHARDSON
GORDON ROBERTS
JEANNIE SHENK
RANDY SWISHER
JEFF TARBERT

Advertising manager, W. E. (Trez) Lee; *Assistant advertising manager*, Peggy Douglas;
Circulation manager, Margaret I. Winfough; *Classified advertising manager*, LaVeer Jordan.

Editorial and advertising offices: 2301 M St. N.W., Washington, D.C. 20037. 202/775-8300

PUBLIC POWER *is the official publication of the American Public Power Association. Opinions expressed in signed articles are not necessarily* APPA *policies. For permission to reprint articles write or call the publisher.*

Published bimonthly. PUBLIC POWER is a member of Business Publication Audit of Circulation, Inc. (BPA) and the Society of National Association Publications (SNAP). Second-class circulation postage paid at Washington, D.C. Subscription Rate: $35 per year; single copy $5; Jan.-Feb. Directory $40 ($20 to members). (USPS-449-420)

Comparison of Power Supply Alternatives in approximate order from proven and conventional to emerging and storage technologies

Technology	Status	Dispatch-able	Capacity Range (MW)	Duty Cycle	Efficiency (%)	Equiva Availab (%
Subcritical Boiler, Coal, Wet Limestone FGD	Commercial	yes	40-500*	Base	34	71
Light Water Nuclear Reactor	Commercial	yes	500-1,100*	Base	32	68
Coal Power Plant Rehabilitation	Commercial	yes	note (500*)	Intermediate/Base	34	75
Combustion Turbine (distillate)	Commercial	yes	5-75*	Peaking	25	91
Conventional Combined Cycle (distillate)	Commercial	yes	10-220*	Intermediate	41	90
Slow-Speed Diesel	Commercial	yes	10-40*	Peaking/Intermediate/Base	39	95
Low-Head Hydro	Commercial	no	<1-20 (5*)	Peaking/Intermediate	85-90	94
Municipal Solid Waste	Commercial	yes	20-100 (45*)	Base	18	65
Conventional Biomass	Commercial	yes	10-50 (24*)	Base	20-25	86
Geothermal—Dual Flash	Commercial	yes	5-100 (50*)	Base	7-8	85-90
Geothermal—Binary	Demonstration	yes	5-100 (50*)	Base	10	85-90
Wind Turbine	Commercial	no	<1-50 (20*)	Peaking/Intermediate	20-50	95
Photovoltaics—Flat Plate	Commercial	no	<1-100	Peaking/Intermediate	9-11	96
Atmospheric Fluidized-Bed Combustion (bituminous)	Pilot/Demonstration	yes	20-500*	Base	34	83
Pressurized Fluidized-Bed Combustion (bituminous)	R&D Pilot	yes	40-500*	Base	38	78
Integrated Gasification/Combined Cycle (Texaco; bituminous coal; conventional turbine)	Demonstration	yes	100-500*	Intermediate/Base	35	81
Phosphoric Acid Fuel Cell	Pilot/Demonstration	yes	0.04-11 (10*)	Intermediate/Base	41	87
Advanced Fuel Cell (molten carbonate)	R&D/Pilot	yes	0.04-22*	Intermediate/Base	53	91
Solar Thermal—Central Receiver	Demonstration	no	10-150*	Intermediate	31	87
Solar Thermal—Parabolic Dishes	Pilot	no	<1-50 (10.2*)	Peaking	20-25	95
Ocean Thermal Energy Conversion	R&D	yes	1-40	Base	2-3	n/a
Cogeneration—Combustion Turbine	Commercial	yes	0.10-100	Peaking	25 (140-320 kWh/MM Btu steam) (52-68 net)	90
Cogeneration—Diesel	Commercial	yes	0.075-30	Peaking	33-40 (350-700 kWh/MM Btu steam) (45-57 net)	80-90
District Heating and Cooling	Commercial	n/a	n/a	n/a	58-78 for thermal distribution	n/a
Organic Rankine Bottoming Cycle	Demonstration	yes	0.20-5.7	Peaking/Intermediate/Base	22-46	90
Pumped Hydro—Surface	Commercial	yes	10-2,500 (350*)	Peaking	74 (net)	87
Tidal Power	Demonstration	yes	20*-5,000	Intermediate	85	98
Compressed Air Energy Storage	Demonstration	yes	50*-200	Peaking/Intermediate	76	90-98
Battery—Lead Acid	Demonstration	yes	-10*	Peaking	71-82	96
Battery—Zinc Chloride	Pilot/Demonstration	yes	2-20 (10*)	Peaking	60-70	90

GENERAL NOTES: The authors would like to thank Stanley Vejtasa, manager, technology evaluation, and EPRI, for providing information from the 1985 TECHNICAL ASSESSMENT GUIDE prior to publication. All table figures are from this preliminary document unless otherwise noted. Figures are subject to change before final publication. Where a footnote appears in the "Technology" column, figures are from that source unless otherwise noted.

Single number quantification represents best estimates of a range; local circumstances may alter these estimates substantially. Cost estimates for the "commercial" and "demonstration" categories are a or projected; "pilot" and "R&D" categories are engineering goals. Incremental costs in the "O&M Cost" (operation and maintenance) category represent variable and consumable costs; annual costs do incorporate fuel or charging costs.

*Indicates unit size used for comparison.

Capacity Factor	Lead time (yrs)	Capital Cost (1985 $/kW)	O & M Costs (except fuel)	Advantages	Disadvantages
65	4	$1,320	$24/kW-yr, 5.5 mills/kWh incremental	mature and proven, low cost, abundant fuel, high availability, greater coal flexibility	sludge disposal, siting, permitting
65	8	2,880	$31/kW-yr, 0.8 mills/kWh incremental	low fuel cost, very clean performance	high capital cost, regulatory uncertainty, management/financial controls, public perception
25-75	6-8	1,100	$0.03/kWh variable	use of existing sites, possible few permit changes, low relative cost, possible efficiency, capacity improvements	less certainty than new, somewhat limited by current technology
5-15	1	295	$0.40/kW-yr, 4.0 mills/kWh incremental	low capital cost, proven technology, short lead times	low efficiency, petroleum- or natural gas-based
40	2	510	$6.6/kW-yr, 1-7 mills/kWh incremental	high efficiency, potential for lower grade fuels, clean performance, quick construction, low load capabilities	relatively high-cost fuel
25-75	2	1,200	5 mills variable	modular, familiar technology, efficient, broad load capabilities	petroleum- and natural gas-based
15-70	2	1,400-3,000	$10/kW-yr, 2.9 mills/kWh incremental	many potential sites, retrofit of old sites possible, short lead time, no fuel cost	costs site-dependent, seasonal availability, output based on weather and stream flow
50-70	3	5,320	$119/kW-yr, 12 mills/kWh incremental	uses renewable resource, addresses local refuse problem	relatively high capital cost, siting requires adequate refuse, air quality concerns
65-80 (>90)	3	1,900	$52/kW-yr, 2.7 mills/kWh incremental	mature technology, benefits local economy, renewable feedstock	requires stable biomass supply, air quality concerns
70-90	3	1,300-1,600	10-15 mills/kWh	use of more common liquid hydrothermal resources, little environmental impact, low fuel cost	resource limited to western U.S., requires exploration and drilling for resource
70-90	3	1,750	$38/kW-yr, 6.0 mills/kWh incremental	as above	as above, technology less mature
20-35	1-2	900-1,200 (1,660)	6-14 mills/kWh	no fuel cost, no emissions, short lead time, modular	land use impact, low capacity factor, siting requires adequate wind resource
20-40	2	8,000-10,000	$12/kW-yr, 10.2 mills/kWh incremental	no fuel cost, no emissions, short lead time, modular	high capital cost, land intensive
65	4	1,270	$20/kW-yr, 6.5 mills/kWh incremental	low NOx emissions, dry solid waste, fuel flexibility, retrofit potential, modular potential	adequate demonstration required
65	4	1,500	$34/kW-yr, 8.5 mills/kWh incremental	low NOx emissions, high efficiency, dry solid waste, small relative size, modular potential	high capital, operating cost, pressurized conditions, uniform fuel requirement, demonstration required
65-75	3	1,580	$32/kW-yr, 3.2 mills/kWh incremental	high efficiency, clean performance, siting flexibility, staged-construction potential, abundant, low cost fuel	lack of operating history, cost sensitivity to size, competition uncertain, hazardous waste potential
40	1	1,525	$22/kW-yr, 8.9 mills/kWh incremental	high efficiency, load following capability, siting flexibility, modular, very clean performance	hydrocarbon-rich fuel, high capital cost, adequate demonstration required
40	1	1,380	$5/kW-yr, 18 mills/kWh incremental	as above, highest efficiency, electrolyte stability, high-temperature waste heat	as above
42	3	3,450-3,800	$19/kW-yr, 18 mills/kWh incremental	no fuel cost, limited storage capability	capital intensive, land intensive, limited to high insolation locations
25	2	2,000-3,000	15-53 mills/kWh	modular, no fuel cost, short lead time, less capital than central receiver	land intensive, limited to high insolation locations
50-90	3	3,200->5,000	n/a	no fuel cost, negligible environmental impact, nutrient-rich water for mariculture	high capital cost, low thermodynamic efficiency, sites limited to tropical waters, engineering uncertainties
5-15	2-3	320-900	$0.3-$5/kW-yr, 25-50 mills/kWh variable	increased efficiency, proven technology, broadly applicable	dependent on petroleum or natural gas
5-15	2	350-800	$6-$8/kW-yr, 50-100 mills/kWh variable	as above	as above
n/a	1+	200-700 (thermal)	$2-$7/MM Btu	ability to use a variety of fuels and heat sources, high efficiency if matched with cogeneration	institutional coordination, capital requirements, excavation disruption if retrofitted
25-75	1 (retrofit)	1,200-1,800 (retrofit) 1,000-1,575 (new)	$12/kW-yr, 180 mills/kWh variable	potential to increase efficiency of existing diesels or turbines	indirectly based on petroleum and natural gas prices
10-20	8	910	$4/kW-yr, 3.4 mills/kWh incremental	provides energy storage capability, complements low-cost baseload generation, no fuel cost	sites limited, needs significant peak/off-peak rate differential, reservoir requirements
29-34	3-10	1,440-2,850	$7-$8/kW-yr	no fuel cost, no emissions	extremely site limited, possible significant environmental impact for large projects
5-40	6-7	500-800	3.6 mills/kWh incremental	complements low-cost baseload generation, provides energy storage capability, lessens impact of combustion turbines	site availability, needs large peak/off-peak rate differential
5-15	1.5-2	735-2,000	$1.3/kW yr, 40-50 mills/kWh incremental	uses baseload plants more efficiently, small, modular, no inherent environmental impact	high capital cost for peaking resource
5-15	2	500-900	$2.8/kW-yr, 35 mills/kWh incremental	as above, potentially more cycles and lower capital costs than lead acid	as above

ootnotes: 1. Estimates from Southern California Edison Co. 2. From U.S. Office of Technology Assessment, NEW ELECTRIC POWER TECHNOLOGIES: PROBLEMS AND PROSPECTS FOR THE 1990s, ugust 1985. 3. Many factors depend on original plant. 4. Comprised of many smaller units. 5. APPA staff estimates. 6. Figures from Burlington (Vt.) Electric Department's 50-MW McNeil lant. 7. Calculated from WIND POWER STATIONS: 1984 SURVEY, EPRI AP-3963, June 1985. 8. Pacific Gas and Electric Co. costs are quoted in ENERGY DAILY, Feb. 19, 1985. 9. Commercially available t high cost; still in R&D stage for substantial cost and efficiency improvements. 10. Actual 1985 costs from Sacramento (Cal.) Municipal Utility District and Austin (Texas) Electric Department; includes ower conditioning equipment and other balance of plant. For a conceptual 1995 100-MW plant, EPRI estimates $3,455/kW (1985$). 11. From J.P. Brown, P. Pietrogrande and E.S. Wagner, "Assessment f a Centralized Medium Size Fuel Cell Power Plant," EPRI Research Project 1041-20. 12. From OCEAN THERMAL ENERGY CONVERSION: A STATE OF THE ART STUDY, EPRI ER-1113-SR, July 979. 13. 1984 DOE estimates. 14. 1984 estimates by Giannotti & Associates for proposed 30-MW Taiwan plant. 15. U.S. OTA, INDUSTRIAL AND COMMERCIAL COGENERATION, February 983. 16. From National Research Council, DISTRICT HEATING AND COOLING IN THE UNITED STATES: PROSPECTS AND ISSUES, March 1985. 17. Figures for distribution piping but not building conversion sts. 18. From AN ASSESSMENT OF THE ROLE OF ORGANIC RANKINE CYCLE BOTTOMING CYCLES IN SMALL UTILITIES, U.S. DOE COO-4536-8, July 1979. Costs updated to 1985$ using the Hardy hitman Index. 19. Data obtained from Tidal Power Corp., Halifax, Nova Scotia.